SAFETY

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

ATTENTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

LASER: This Digital Video Disc Receiver employs a Laser System.
To ensure proper use of this product, please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact an authorized service location - see service procedure.

Use of controls, adjustments or the performance of procedures other than those specified may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure.
Visible and invisible laser radiation when open and interlocks defeated.
DO NOT STARE INTO BEAM

LASER	
Type	Semiconductor laser GaAIAs
Wave length	650 nm/780nm
Output Power	7 mW
Beam divergence	60 degree

**CLASS 1
LASER PRODUCT**

WARNING :
To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION :
Use of controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposure.

CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN

**To reduce the risk of electric shock, do not remove cover (or back).
No user serviceable parts inside. Refer servicing to qualified service personnel.**

The lightning flash with arrowhead symbol, with in an equilateral triangle, is intended to alert user to the presence of uninsulated "dangerous voltage" within the product enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the appliance.

CAUTION

*INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK FAILED OR DEFEATED.
AVOID DIRECT EXPOSURE TO LASER BEAM.*

IMPORTANT SAFETY INSTRUCTIONS ⚠️

CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS GIVEN IN THIS OWNER MANUAL AND THOSE MARKED ON THE UNIT. KEEP THESE INSTRUCTIONS. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing. This unit does not contain any parts that can be repaired by the user.

DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

1. Read these instructions
   After unpacking this product, read the owner's manual carefully.

2. Keep these instructions
   Retain this booklet for future reference.

3. Heed all warnings.

4. Follow all the operating and other instructions.

5. Do not use this apparatus near water.

6. Clean only with a damp cloth.

7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades, one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Only use attachments/accessories specified by the manufacturer.

PORTABLE CART WARNING

S3125A

12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. Disc Tray
   Keep your fingers well clear of the disc tray as it is closing. It may cause serious personal injury.

16. Burden
   Do not place a heavy object on, or step on the product. The object may fall, causing serious personal injury and serious damage to the product.

17. Disc
   Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

18. Damage Requiring Service
   Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

   a) When the power-supply cord or plug is damaged.
   b) If liquid has been spilled, or objects have fallen into the product.
   c) If the product has been exposed to rain or water.
   d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
   e) If the product has been dropped or damaged in any way.
   f) When the product exhibits a distinct change in performance - this indicates a need for service.

19. Servicing
   Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazard. Refer all servicing to qualified service personnel.

20. Replacement Parts
   When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

21. Safety Check
   Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

22. USA & Canada versions comply with UL marking.

c (UL) US

23. Subwoofer
   USA & Canada versions comply with UL marking.

Contents

NOTE : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to a supply outlet different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Pack

Examine the contents of the box that your DVD Receiver.
There should be the followings:

- DVD Receiver with attached power cord
- 1 Remote Control
- 2 batteries
- Instruction Book
- AM / FM Antenna

- AV Cable
- Five speakers and including five speaker cables
- An active subwoofer, including a connection cable and a power cable

Player Zones

For the purpose of distribution of DVD Discs, the world has been separated into 6 zones. The zone your player is intended for is indicated on the "Zone Label" This should be the same as the label on discs available in your region. If you have any difficulty playing a disc, make sure the disc is the same zone as your player.

USA

Anti-copy Disc Protection

Some DVD discs have anti-copying devices.
With these discs the playback on a Television will give the highest quality picture, however, you will not be able to record this signal on a VCR.

Closed Captions

This Receiver is compatible with USA closed caption TVs.

Installation

Install your DVD Receiver on a stable flat surface. There must be sufficient room in front of the receiver for the drawer to be opened and the receiver should be positioned so that it can "see" the remote control.
Do not expose your DVD Receiver to extremes of temperature or humidity. Avoid standing it on a hot surface such as on top of other hot running equipment. In a cabinet, allow about 10cm (4 inch) of free space all around the player for adequate ventilation.
* Caution : Do not install this equipment in confined space such as a book case or similar unit!
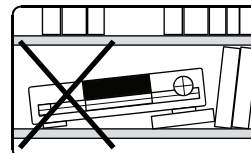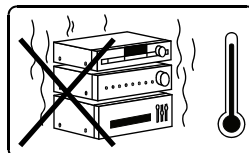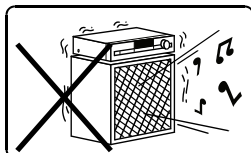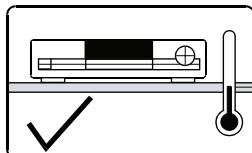
DVD Discs

There are several types of DVD Disc.

|		
Single sided discs.	**These play for approximately**	**2 HOURS**
Single sided two layer discs.	**These play for approximately**	**4 HOURS**
Double sided discs.	**These play for approximately**	**4 HOURS**
Double sided with two layers on both sides.	**These play for approximately**	**8 HOURS**

DVD discs have "Titles" and "Chapters". There can be several Titles on one disc and each Title can contain several Chapters. Titles and Chapters are numbered, e.g. Title 1, Title 2 etc & Chapter1, 2, 3 etc.

Usually one Title will show the disc publisher and studio logos. Next Title will be the film. Other Titles contain trailers for other films, or production notes from the film, or alternative endings for the film. There are many possibilities with Digital Versatile Disc. Chapters within the main Title allow you to search quickly for a specific point on the disc. Many discs have a "Chapter Menu" sometimes called "Scene Index" or "Scene Menu" that displays the first shot from each Chapter, which allows you to select a shot and play the disc from that point onwards. DVD discs can be PAL or NTSC. This player can play both types (as long as the zone is correct).

Single-sided DVD

Single-sided discs usually have the title printed on the top side while bottom is the playing side.

Title side Facing up

Playing side down

Double-sided DVD

Double-sided discs have only a thin title strip. The title you want to view should be on the top.

Title on this Strip

Playing both sides

DVD discs allow up to 8 Languages and 32 subtitles on a single disc. You can select and change the language and subtitle to suit yourself. You can play the whole disc or just part of it and view it from different angles.
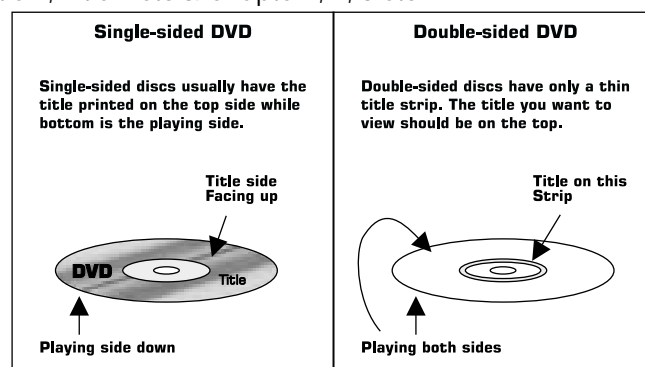
Cleaning DVD Disc

Some problems occur because the disc inside the player is dirty. To avoid these problems, clean your disc regularly in the following way:
- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out.
- Do not wipe in a circular motion. Circular scratches can cause picture distortion or render the disc unplayable.
- Do not use solvents, commercially available cleaners, or anti-static spray intended for analog discs.
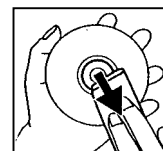
Remote Control

1. **Power On / Standby Button** ⏻
   Switch between Power on and Standby Mode.

2. **Dimmer Button** ▤
   Dim the display screen.

3. **Eject Button** ⏏ **(DVD/CD mode only)**
   Open and close the Disc drawer.

4. **Mute Button** ⌀
   Mute or unmute the sound.

5. **Number keys (0 - 9)**
   For direct access of preset channels or use in
   Disc Player menus.

Input Source Select Buttons

6. **AV1 Button** ⤴1
   Select AV1 as the input source.

7. **AV2 Button** ⤴2
   Select AV2 as the input source.

8. **AV3 Button** ⤴3
   Select AV3 as the input source.

9. **Tuner**
   Select the Tuner mode.
   It can also switch between AM and FM band.

10. **DVD**
   Select the DVD/CD mode.

11. **Menu**
    - in DVD/CD mode, enter the Setup Menu or Disc
      Content Menu.
    - in all other modes, enter System Setup:
      SPEAKER, CLOCK or TIMER.

12. **Sleep** 〈Zz〉
    Set the sleep (auto-off) timer function.

13. **Title** ⬚ **(DVD mode only)**
    Display the Title Menu if present on the disc.

14. **Exit**
    Leave an Setup Menu or System Setup.

15. **Active Navigation Button** ▭ **(DVD/CD mode only)**
    Enter or exit Active Navigation mode.

16. **Skip Back Button** ⏮ **(DVD/CD mode only)**
    Skip to previous chapter.

17. **Skip Forward Button** ⏭ **(DVD/CD mode only)**
    Skip to next chapter.

18. **Mode**
    Select surround modes or soundfield modes.

19. **Tone**
    Select Bass / Treble adjustment mode.

20. **Tune Up / Fast Forward / Menu & Setup
    Navigation Button** (TUNE ▶▶)
    - in DVD/CD mode, fast reverse or fast forward
      the disc.
    - in Tuner mode, tune down or up.
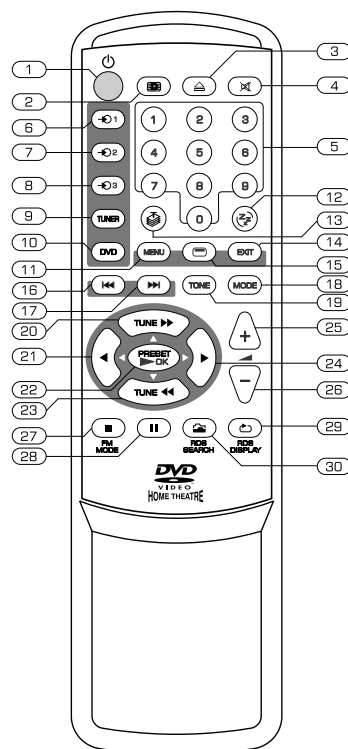   - in Tone mode, adjust the treble/bass tone
      level.
    - use during menu and setup navigation.
    - select movement direction in Setup /
      Disc Contents / Active Navigation menus.

21. **Slow Reverse / Menu & Setup Navigation Button** (◀)
    - in DVD/CD mode, slow reverse or slow
      forward the disc.
    - in Tuner mode, select a preset channel
      number.
    - select movement direction in Setup /
      Disc Contents / Active Navigation menus.

22. **Preset / Play / OK / Enter Button** (PRESET ▶OK)
    - in DVD/CD mode, start disc playback.
    - in Tuner mode, enter preset programming
      mode or confirm a preset.
    - enter or confirm menu and setup navigation.

23. **Tune Down / Fast Reverse / Menu & Setup
    Navigation Button** (TUNE ◀◀)
    - in DVD/CD mode, fast reverse or fast
      forward the disc.
    - in Tuner mode, tune down or up.
    - in Tone mode, adjust the treble/bass tone
      level.
    - use during menu and setup navigation.
    - select movement direction in Setup /
      Disc Contents / Active Navigation menus.

24. **Slow Forward/Menu & Setup Navigation Button** (▶)
    - in DVD/CD mode, slow reverse or slow
      forward the disc.
    - in Tuner mode, select a preset channel
      number.
    - select movement direction in Setup /
      Disc Contents / Active Navigation menus.

25. **Master Volume + Button** (+)
    Increase the volume.

26. **Master Volume - Button** (−)
    Decrease the volume.

27. **FM Mode / Stop** ■
    - in DVD/CD mode, stop disc playback.
    - in tuner mode, select Mono/Stereo.

28. **Pause** ❙❙ **(DVD/CD mode only)**
    Freeze the picture and sound.

29. **RDS Display /** ↺ **(RDS for Europe only)**
    - in DVD/CD mode, set the limits for section
      repeat.
    - in CD mode, display the CD program Menu.
    - in Tuner mode, display RDS information.

30. **RDS Search /** ▱ **(RDS for Europe only)**
    - in DVD mode, display the Index Menu.
    - in Tuner mode, search RDS station.

Front Panel

1. **Standby LED Indicator**
   Indicate standby mode.

2. **Power On/Standby Button**
   Switch between Power On and Standby Mode.

3. **Tuner Button**
   Select Tuner as the input source.
   It can also switch between AM and FM band.
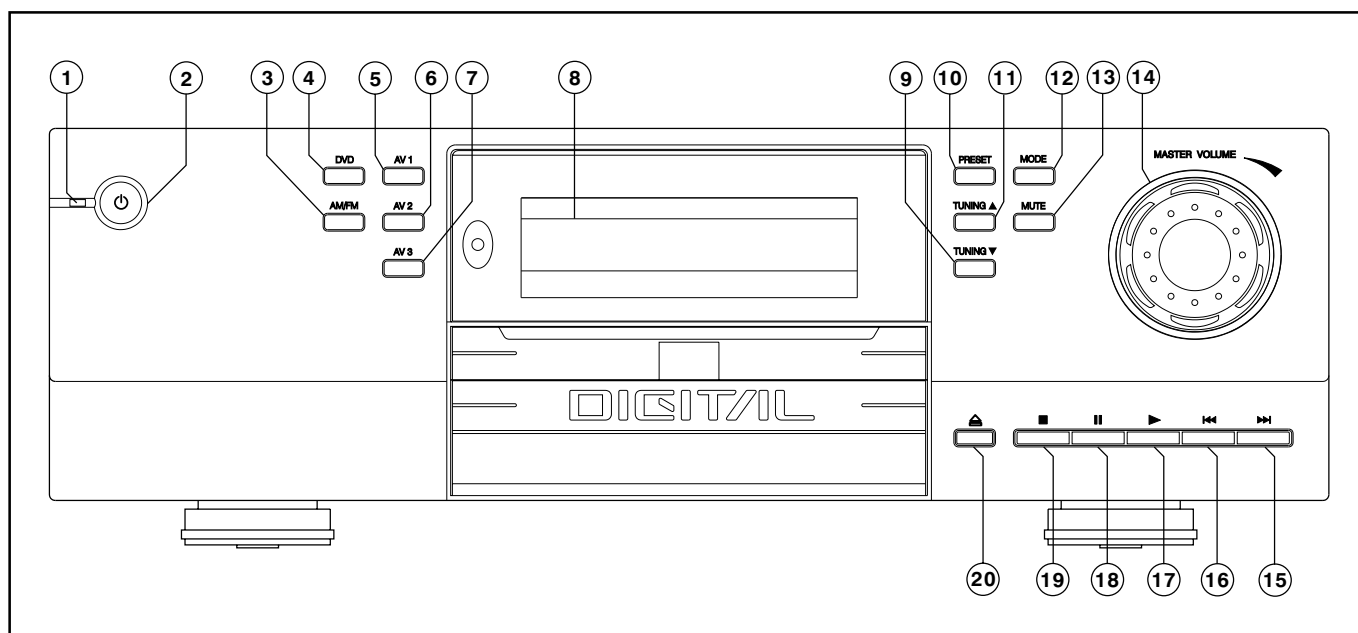
4. **DVD Button**
   Select the DVD / CD as the input source.

5. **AV1 Button**
   Select AV1 as the input source.

6. **AV2 Button**
   Select AV2 as the input source.

7. **AV3 Button**
   Select AV3 as the input source.

8. **Vacuum Fluorescent Display (Display Screen)**
   Display details for user's information.

9. **▼ Tuning Down Button (Tuner mode only)**
   Tune down.

10. **Preset Button (Tuner mode only)**
    Select preset function while in Tuner mode.

11. **▲ Tuning Up Button (Tuner mode only)**
    Tune up.

12. **Mode Button**
    Select the surround modes or soundfield modes.

13. **Mute Button**
    Mute and unmute the sound.

14. **Volume**
    Adjust the master volume. Turn clockwise to
    increase and counter-clockwise to decrease.

15. **▶▶I Skip Forward Button (DVD/CD mode only)**
    Skip to next chapter.

16. **I◀◀ Skip Back Button (DVD/CD mode only)**
    Skip to previous chapter.

17. **▶ Play Button (DVD/CD mode only)**
    Play the Disc.

18. **II Pause Button (DVD/CD mode only)**
    Freeze the picture and sound.

19. **■ Stop Button (DVD/CD mode only)**
    Stop playing the Disc.

20. **⏏ Eject Button**
    Open and close the Disc drawer.

Rear Panel
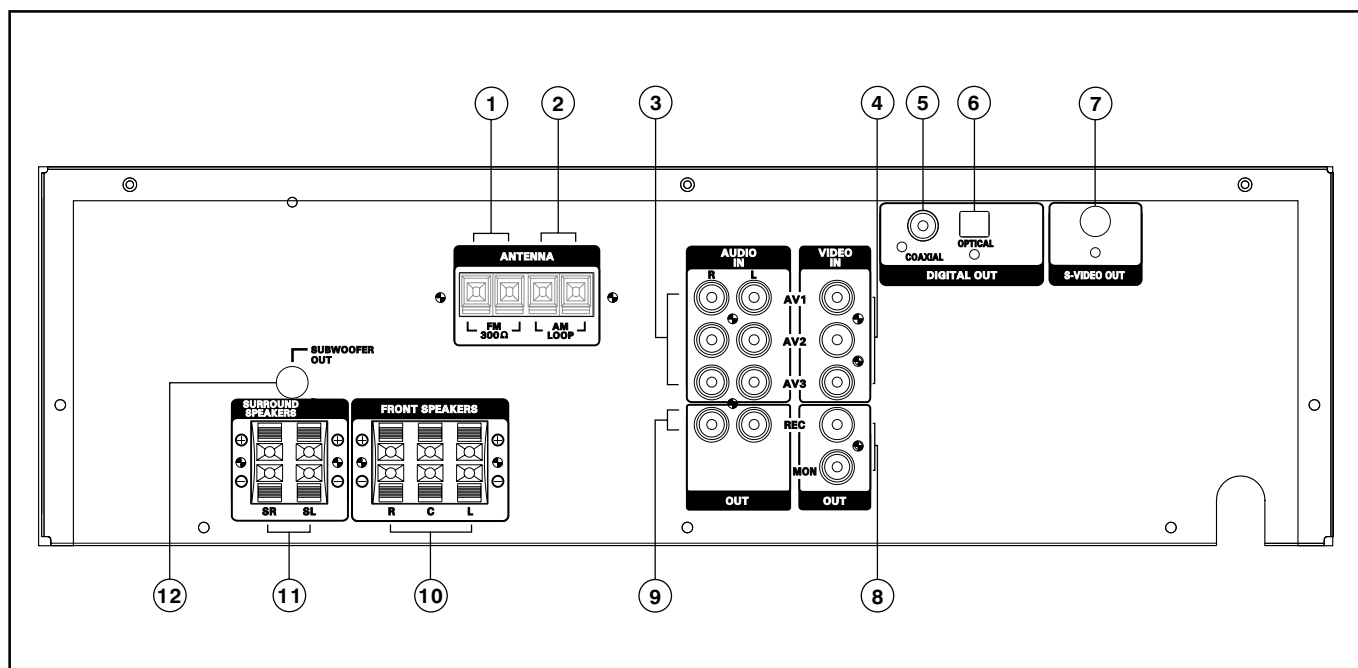
1. **FM Antenna**

   For FM reception, connect the FM antenna to the FM jack. Move the antenna in various directions until the clearest signal is received.

2. **AM Loop Antenna**

   For AM reception, connect the AM loop antenna to the AM jack. Position the loop antenna to receive the clearest sound.

3. **Audio Input**

   For connecting analog (left / right) to the corresponding AUDIO OUT jack on a AV1, AV2, or AV3.

4. **Video Input**

   For connecting video to the corresponding VIDEO OUT jack on AV1, AV2 or AV3.

5. **Digital Coaxial Output**

   For connecting to external equipment that has a digital coaxial in jack.

6. **Digital Optical Output**

   For connecting to external equipment that has a digital optical in jack.

7. **S-Video Out**

   For connecting to S-Video IN jack on the TV using an optional S-Video cable.

8. **Video Output**

   For connecting to external equipment with video in jacks :

   i) MON - Connect to TV or Monitor

   ii) REC - Connect to VCR or other recording device

9. **Audio Output**

   For connecting analog (left / right) signals to external recording devices such as VCR or Tape Recorder.

10. **Front Speakers**

    For connecting to front left speaker (L), center speaker (C), front right speaker (R).

11. **Surround Speakers**

    For connecting to surround left speaker (SL) and surround right speaker(SR).

12. **Subwoofer Out**

    For connection to an active subwoofer.

GB

Front Panel of the Subwoofer

POWERED SUBWOOFER

STANDBY

①

②
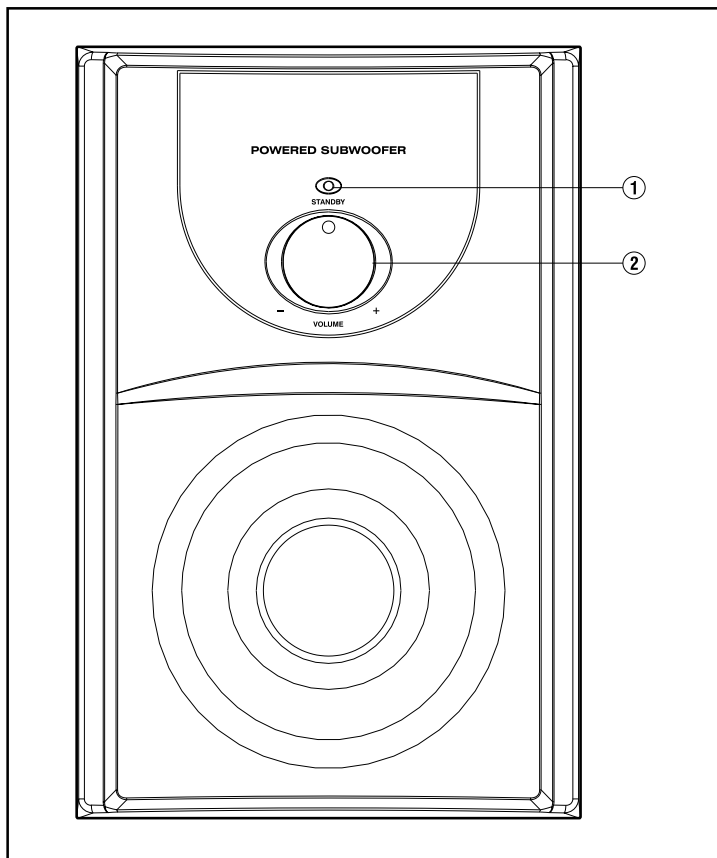
VOLUME – +

1. **Standby Indicator**
   Red light indicates Standby Mode.
   Green light indicates Power On.

2. **Power On/Off and Volume Control**
   For adjusting the volume of subwoofer during Power On.
   Turn clockwise to increase the volume and counter - clockwise to decrease.

Rear Panel of the Subwoofer

SUBWOOFER IN

①

②

0° PHASE 180°

POWER :
AC 120V~
60Hz 75W max.

③
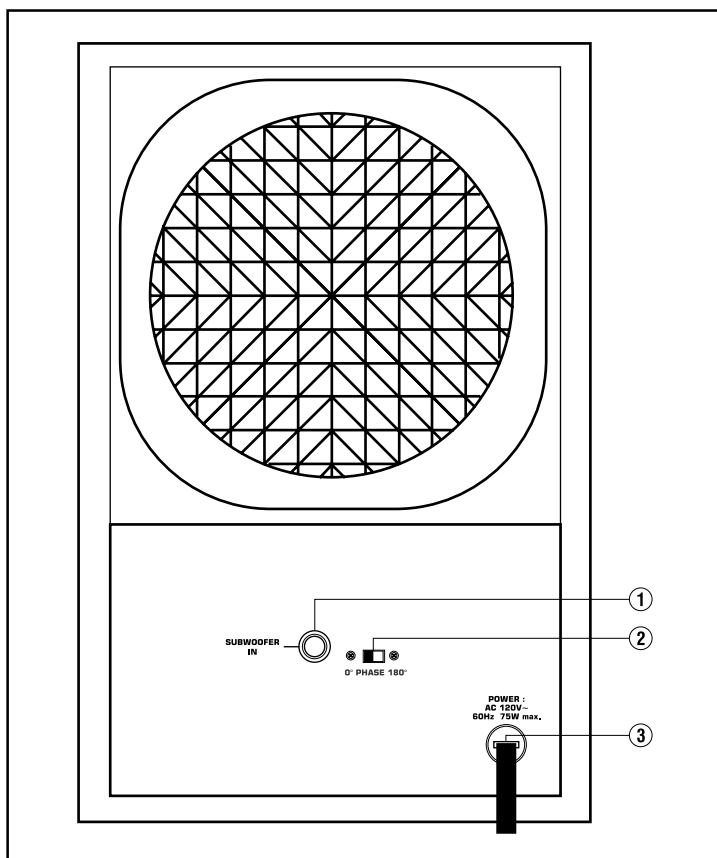
1. **Subwoofer Input Jack**
   For receiving signal from the amplifier.

2. **0° Phase 180°**
   The correct setting depends upon the position of the subwoofer and is the one that makes you feel most comfortable.

3. **Power Cord**

Setup and Installation

Important

Make sure the AC voltage matches your local voltage.
Connect the AC cord only after speakers, antennas, and all optional equipment connected.

Speaker Connection

Before Connecting

Refer also to the instruction manual of the speakers.
This DVD Receiver is designed to reproduce optimum sound quality when speakers with the specified impedance are connected. All speakers are designed for 8 Ohms.
Maintain correct polarity when connecting speakers (connect the colored wire to "+" and the black wire to "-").
To prevent damage to circuits, never allow the 2 wires to each speaker, to touch each other.

Analog Audio Connections
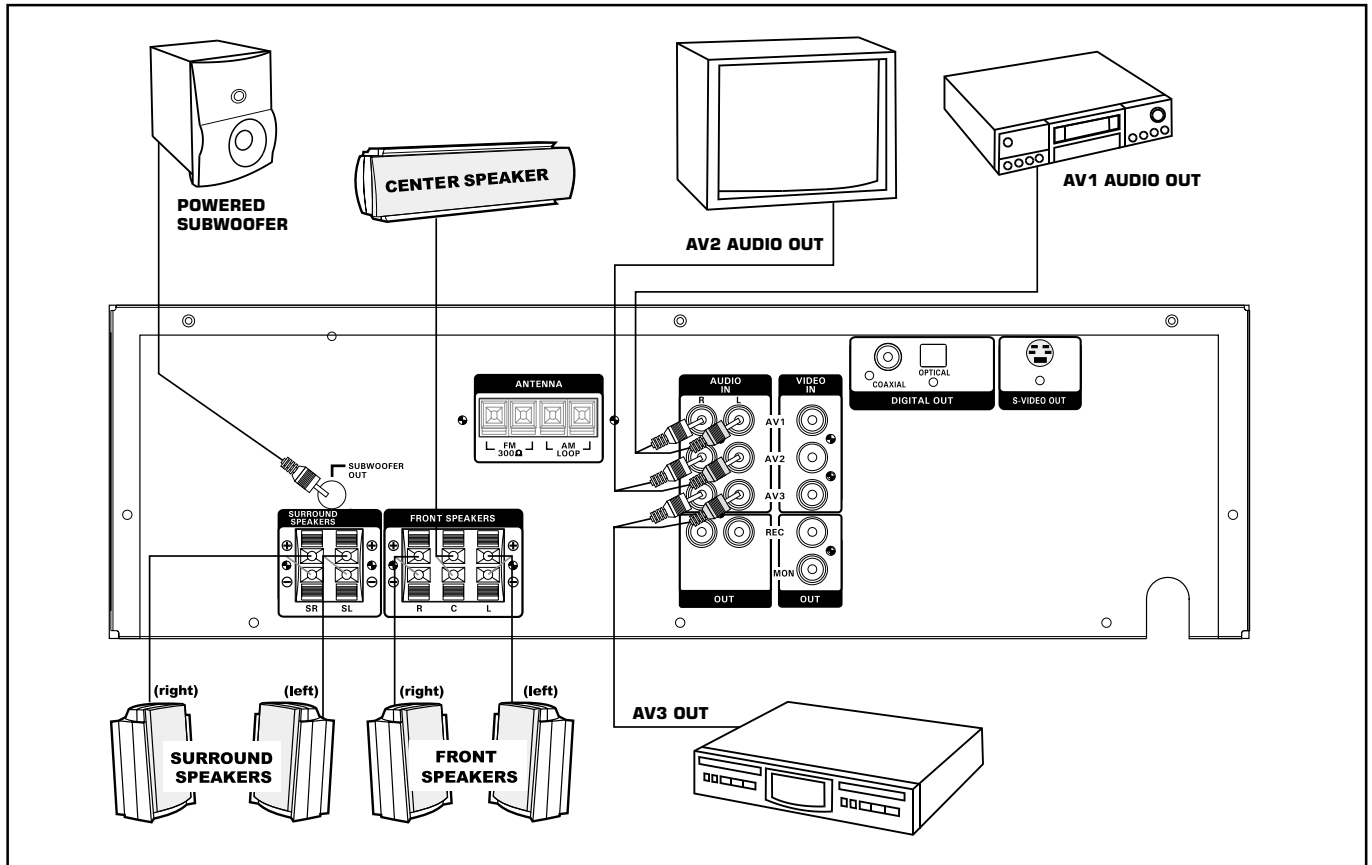
Video Connections
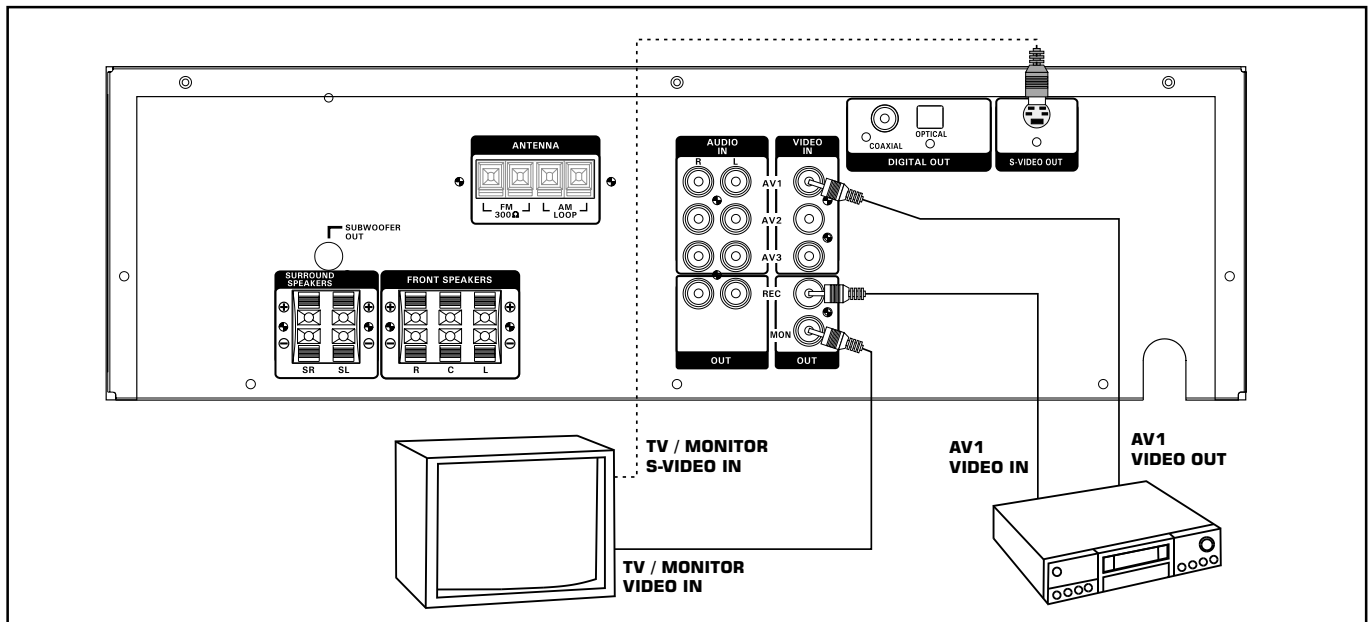
Digital / Option Audio Connections
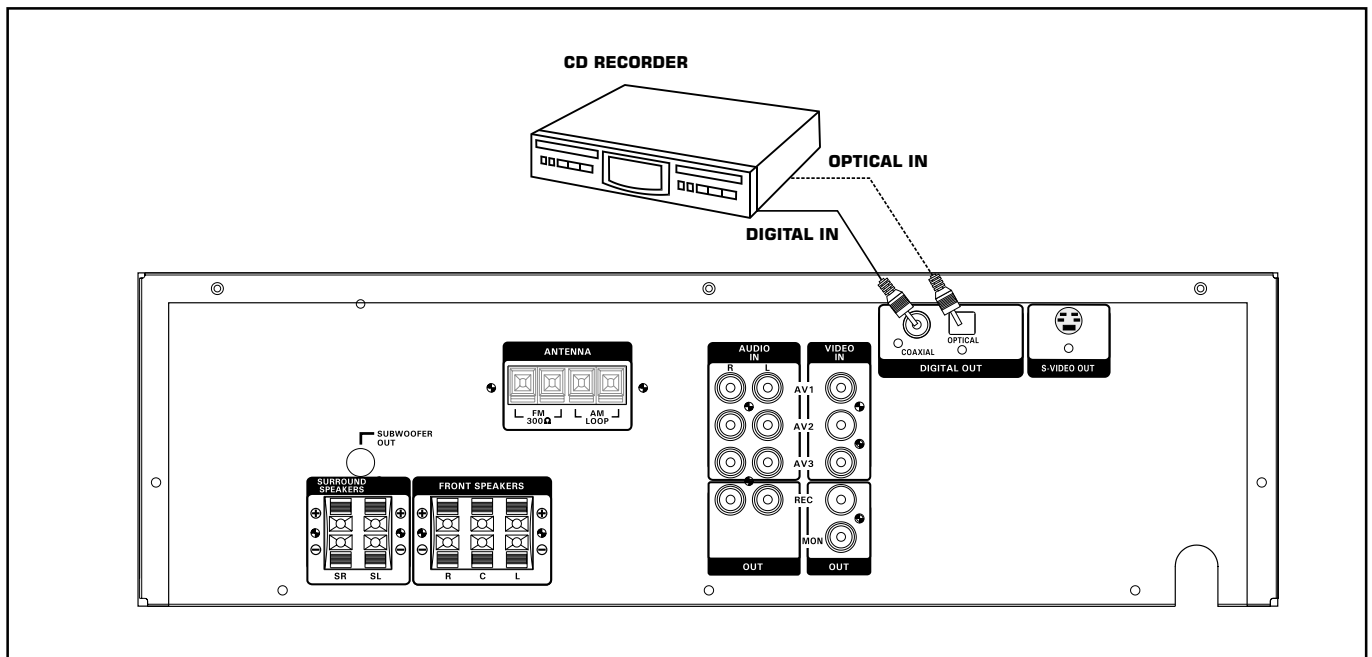
Speaker Placement

Placement of speakers play an important role in the reproduction of surround sound. Particular attention should be taken when designing the speaker layout. For best surround effects, all speakers should be installed. If center speaker or subwoofer is not connected, the sound from the unused channel will be distributed to the connected speakers in order to reproduce the best possible surround sound.
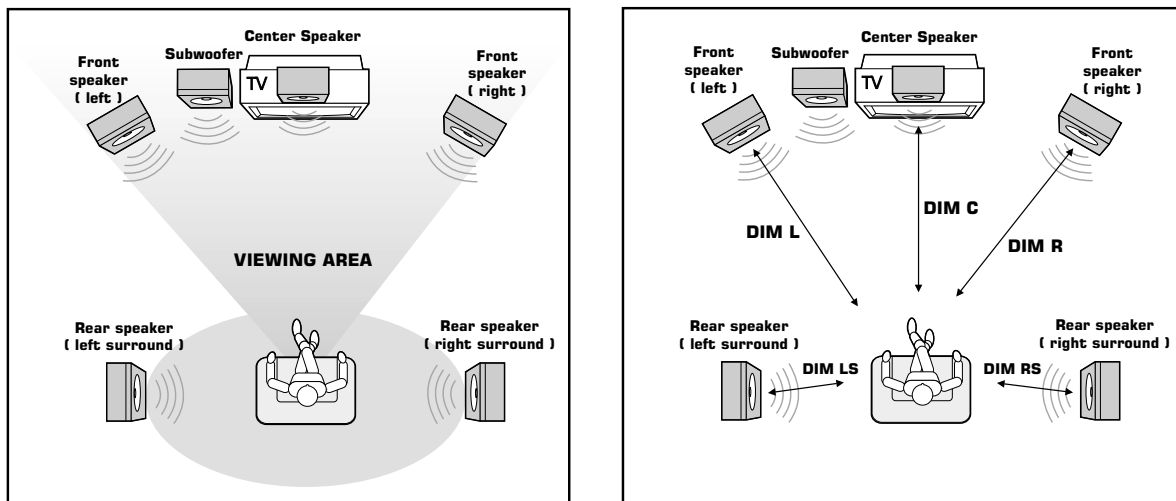
A typical room layout will have the left, center, and right speakers across the front, and the left surround and right surround speakers along the sides towards the rear as shown in the above left picture. The center speaker can be above or below the video screen or TV.   A subwoofer with built-in power amplifier can be installed for powerful bass sounds.

The 'speaker to listener dimensions' shown in the above right picture is used for proper setup of the surround system (see speaker distance setup below).
Note: To avoid magnetic interference with the picture on your TV, do not position the front speakers too close to the TV.

Speaker Setup

Before operating your system in AV1, AV2 or AV3 mode, you will need to set up the speaker configuration and the distance from the listening position to each speaker. For Speaker Setup in DVD mode, refer to "DVD/CD operation - Audio Set".
Note: It is only necessary to set the parameters once unless you change the speaker configuration.

Setting the speaker size

1. Press MENU to enter System Setup mode.

2. Press OK to select Speaker Setup.
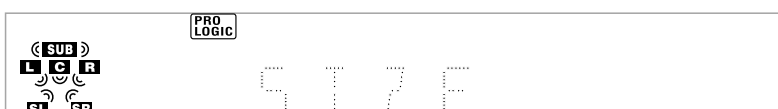
3. Press OK to select Speaker Size Setup mode.
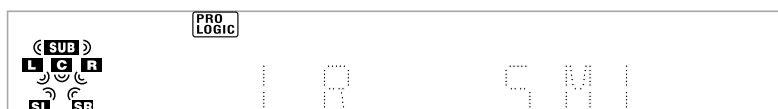
4. Use ◀◀ / ▶▶ to adjust the setting.
    The correct setting for the speakers supplied in the pack is "SML" (small).
5. Use ◀ / ▶ to select a different speaker.
6. Press OK to save these settings or press EXIT to leave setup mode.

Setting the speaker distance

1. Press MENU to enter System Setup mode.
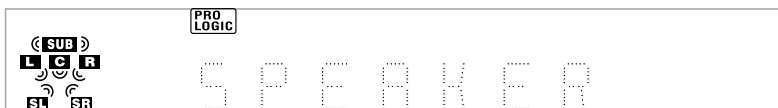
2. Press OK to select Speaker Setup.

3. Press ◀ / ▶ until Speaker Distance Setup is selected.

4. Press OK to enter Speaker Distance Setup mode.

5. Use ◀ / ▶ to select a different speaker.
6. Use ◀◀ / ▶▶ to adjust the distance to match as close as possible to the actual distance.
7. Press OK to save these settings or press EXIT to leave setup mode.

Setting each speaker's relative volume balance

Note: Please sit at your usual listening position to correctly set the speaker balance to match each other.

1. Press MENU to enter System Setup mode.

2. Press OK to select Speaker setup.

```
SIZE
```
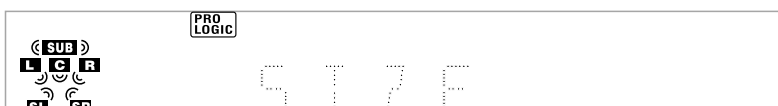
3. Press ◀ / ▶ until Speaker Level Setup is selected

```
LEVEL
```
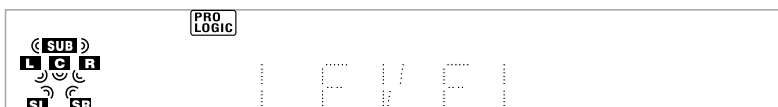
4. Press OK to enter Speaker Level Setup mode.

```
Lch  +18dB
```
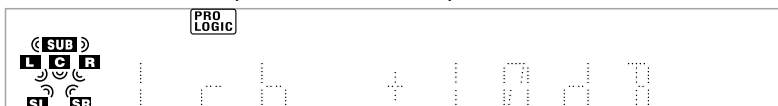
5. Use ◀ / ▶ to select a different speaker.
6. Use ◀◀ / ▶▶ to adjust the level of a particular speaker until it matches the other speakers.
7. Press OK to save these settings or press EXIT to leave setup mode.

Basic Operations

Selecting the source

Press one of the input selector buttons below to select the input source:

- AV1

```
AUX 1
```

- AV2

```
AUX 2
```

- AV3

```
AUX 3
```

- AM/FM

```
TUNER
```

- DVD
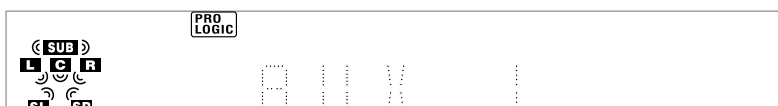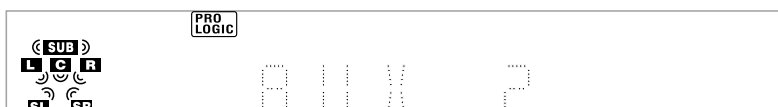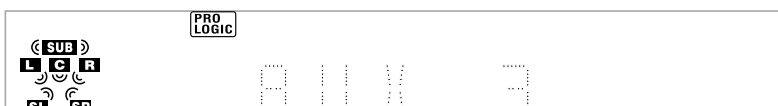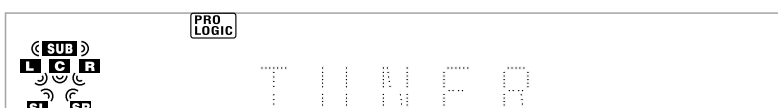
```
DVD
```
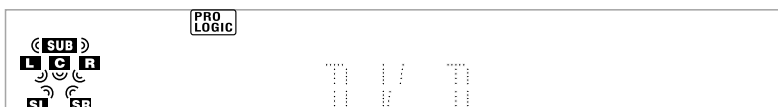
Adjusting the Master Volume

The master volume adjusts all channels at the same time:
1. Press the master volume + / − on the remote control OR
2. Rotate the master volume knob on the front panel.

```
VOL    40
```
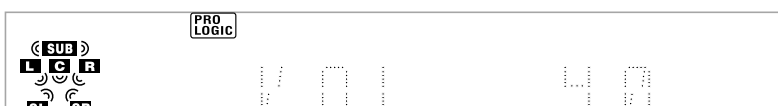
Adjusting the Tone

The tone controls only affect the front left and right speakers.
1. Press TONE once to select Bass adjustment.

2. Press TONE again to select Treble adjustment.

3. Press TONE for the third time to exit or wait a few seconds for it to time out.
4. While in Bass or Treble adjustment mode, press ◀◀ / ▶▶ to adjust the level of Bass/Treble level.

Muting the Output

1. Press MUTE to mute the speakers output, the 'MUTE' icon will appear on the display.
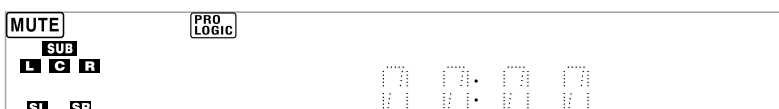
2. Press MUTE again to restore the speaker output. The 'MUTE' icon will disappear from the display.

Dimming the Display Screen

1. Press DIMMER 🔳 on the remote will dim the display by one-third.
2. Press DIMMER 🔳 on the remote again will dim the display further by another one-third.
3. Press DIMMER 🔳 on the remote for the third time will return the display to original brightness.

Selecting Output Modes

The number of output modes varies according to the system setup and the input source. A list of all output modes are shown below:

- **Dolby Pro Logic Surround**
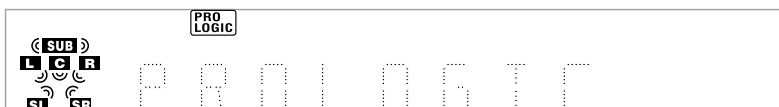
- **Dolby 3 Stereo**

- **Stereo**
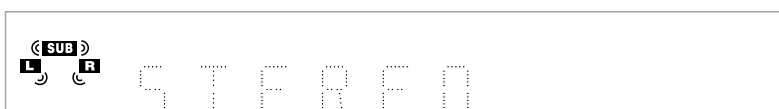
- **Digital Soundfield Simulation - Stadium, Stage, Hall, Disco, Live**
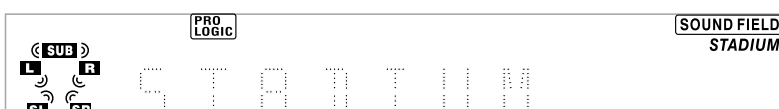
The available output modes can be selected using the SURROUND key, which will cycle through the available modes. See Surround Sound section for further information.

- Stage

PRO LOGIC | SOUND FIELD
STAGE

- Hall

PRO LOGIC | SOUND FIELD
HALL

- Disco

PRO LOGIC | SOUND FIELD
DISCO

- Live

PRO LOGIC | SOUND FIELD
LIVE
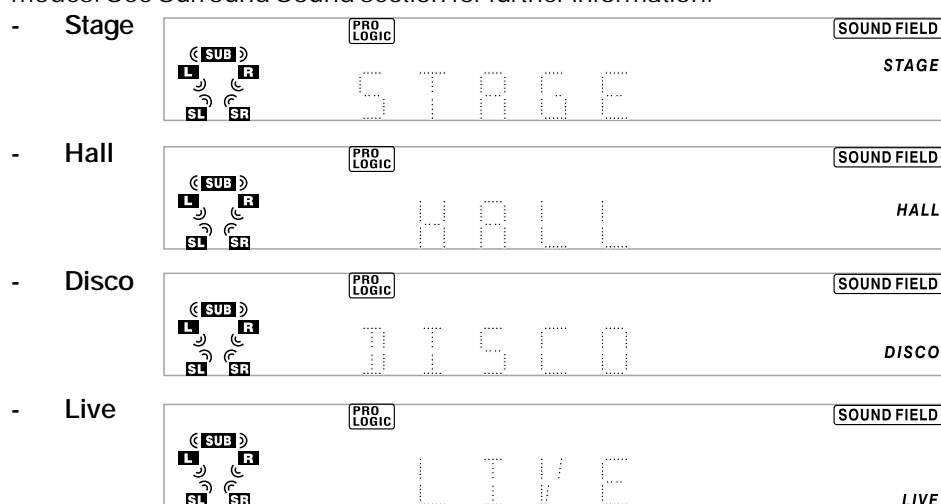
Surround Sound & Sound Effects

Vacuum Fluorescent Display Surround Indicators

Pro Logic Indicator   Stadium Indicator   Soundfield Indicator

PRO LOGIC | SOUND FIELD
STADIUM
STAGE
HALL
DISCO
LIVE

Speaker Indicator   Stage Indicator   Hall Indicator   Disco Indicator   Live Indicator
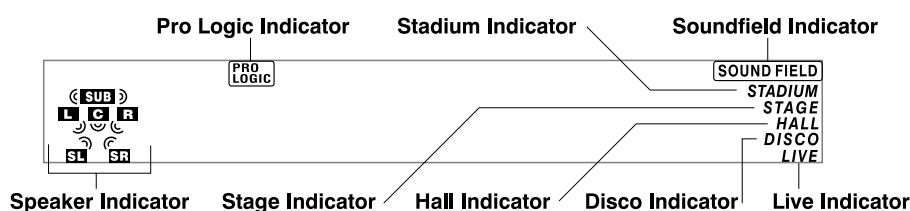
Note : For proper surround sound make sure the user has followed the setup and installation procedure fully.

Dolby Digital Surround

The Dolby Digital Surround system requires all 5 speakers (front left, center, front right, surround right, surround left) for correct surround sound reproduction. This 5.1 channel digital surround format allows for five individual full-range (20Hz-20KHz) channels plus an LFE (Low Frequency Effects) channel for the low-range (20Hz-120Hz) effects. It creates a realistic sound similar to theaters and cinemas. A large proportion of DVD discs use this system for sound.

Dolby Pro Logic Surround

The Dolby Pro Logic Surround system is a specially encoded two channels analog format which will produce four channels (front left, center, front right, mono surround) when a Dolby Pro Logic Decoder is used. It is also compatible with stereo systems but the user will only have two channels (front left & right) of sound.

Dolby 3 Stereo

Dolby 3 Stereo produces three channels (front left, center, front right) of sound from a two channels analog signal. It is not a surround format so it does not require surround speakers.

Soundfield Effects

The digital Soundfield Effects can recreate the effects of sounds reflected from walls or ceilings to obtain the sound presence of real environments.
- **Stadium**
  This mode recreates a large stadium using very long reverberation times.
- **Stage**
  This effect recreates a stage environment, emphasizing sound from the front speakers.
- **Hall**
  This surround effect recreates a hall using lots of reflections. Suitable for orchestral music such as classical and opera.
- **Disco**
  This surround effect generates a feeling of being in a disco or club. It is suitable for all types of music that are played in disco.
- **Live**
  This soundfield effect is suitable for all types of music.

Tuner

Vacuum Fluorescent Display Indicators

Preset Indicator   RDS Indicator   Tuned Indicator
Stereo FM Mode
AM Frequency Indicator
FM Frequency Indicator
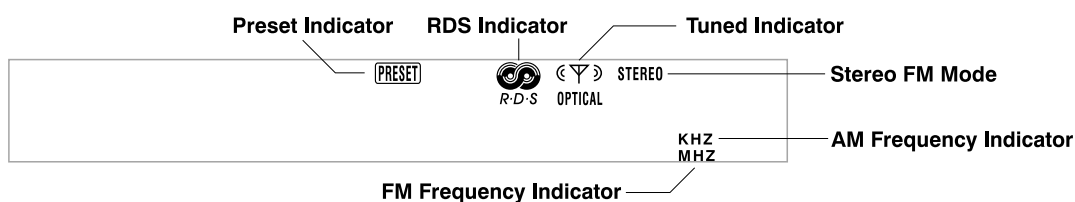
Tuning

Manually
1. Press TUNER to select tuner mode.

2. After two seconds the display will show the current band and frequency.
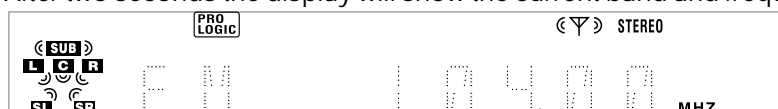
3. If necessary, press TUNER again to switch between AM and FM band.
4. Press ◀◀ / ▶▶ to change the frequency. The frequency changes in 100KHz steps in FM and 10KHz steps in AM.

Automatic Tuning
1. Press TUNER to select tuner mode.
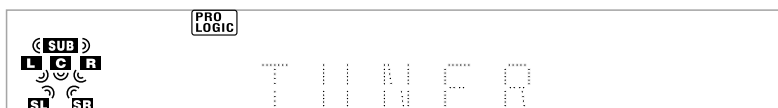
2. After two seconds the display will show the current band and frequency.
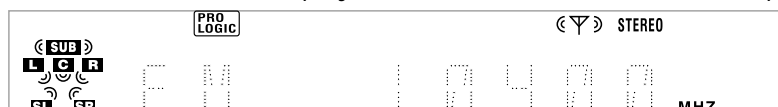
3. If necessary, press TUNER again to switch between AM and FM band.
4. Press and hold TUNE ▲ or TUNE ▼ for more than one second to activate auto tuning mode. When a station is received, auto tuning stops.

Tuning to a weak FM station
1. Press the tune ◀◀ / ▶▶ keys to tune in the weak FM station manually.
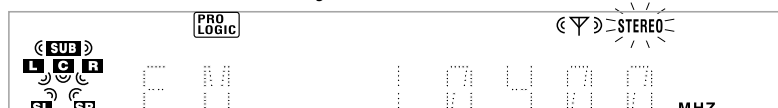
2. Press FM MODE on the remote control to switch to Mono mode. This should reduce the noise and make the station easier to hear.

Preset Stations
When a preset station is selected, the preset number will appear next to the frequency on the display.

Selecting Preset Stations
1. In tuner mode, press TUNER button to switch between AM and FM band.
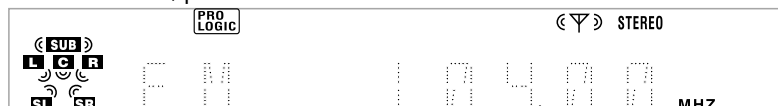
2. Press PRESET, then use ◄◄ /►► on the remote control to select desired preset station or use the remote's direct access numeric keys.

```
PRO                PRESET              (( Y ))  STEREO
LOGIC
(( SUB ))
L  C  R            Ch        14
SL  SR
```

Storing Preset Stations

The unit can store up to 20 stations in the FM waveband and 20 stations in the AM waveband in the memory.

1. In tuner mode, press TUNER button to switch between AM and FM band.

```
PRO                                   (( Y ))  STEREO
LOGIC
(( SUB ))
L  C  R            FM        104.00
SL  SR                                         MHZ
```

2. Press the tune ◄◄/►► on the remote control to tune in the desired station.

```
PRO                PRESET              (( Y ))  STEREO
LOGIC
(( SUB ))
L  C  R            FM        89.50
SL  SR                                         MHZ
```

3. Press and hold PRESET until "Preset" Icon flashes.

```
PRO              ⸝PRESET⸜            (( Y ))  STEREO
LOGIC
(( SUB ))
L  C  R            Ch        01
SL  SR
```

4. Press ◄/ ►to select the preset channel number or use the remote's direct access numberic keys.

```
PRO              ⸝PRESET⸜            (( Y ))  STEREO
LOGIC
(( SUB ))
L  C  R            Ch        13
SL  SR
```

5. Press PRESET once more to store into memory.

```
PRO                PRESET              (( Y ))  STEREO
LOGIC
(( SUB ))
L  C  R            FM        89.50
SL  SR                                         MHZ
```

Clock & Timer Functions

Timer On Indicator ————————————

```
                                              🕐
              SLEEP
```

Sleep Timer On Indicator —
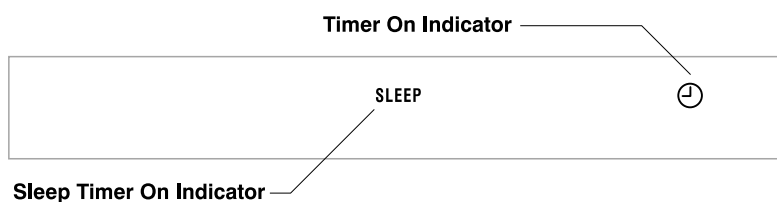
Clock

Setting the Clock

1. Press SETUP button to enter Setup mode.
2. Press ◄/ ► until Clock Setup mode is selected.

```
PRO
LOGIC
(( SUB ))
L  C  R            CLOCK
SL  SR
```
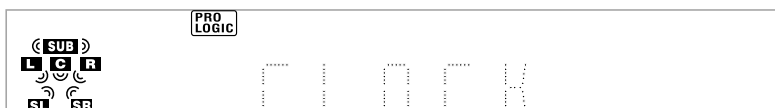
3. Press OK to enter 12/24 hour mode, press ◄◄/ ►► on the remote control to change between 12 and 24 hour mode.

```
PRO
LOGIC
(( SUB ))
L  C  R            SET  24HR
SL  SR
```
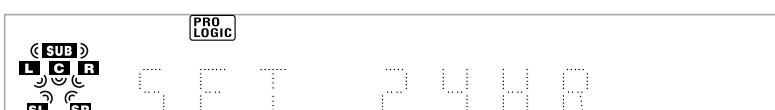
4. Press OK to enter clock adjustment mode. When the two hour digits flashes, use ◄/ ► keys to set the hour.

```
PRO
LOGIC
(( SUB ))
L  C  R            00:00
SL  SR
```
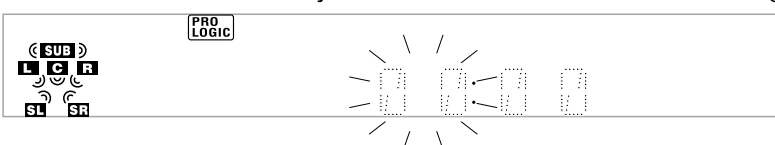
5. Press ◄ / ► to change the minute field and the two minute digits will flash.
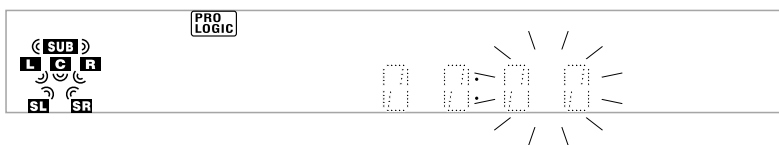
6. Use ◄◄ / ►► keys to set the minute.
7. Press OK to confirm the setting and return to normal mode.

ON/OFF Timer
Setting the ON/OFF Timer
1. Press SETUP button to enter Setup mode.

2. Press ◄ / ► until Timer Setup mode is selected.
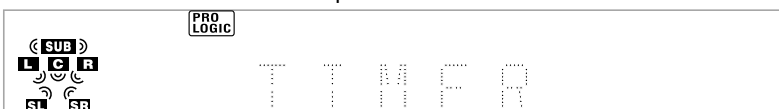
3. Press OK to enter Timer Setup mode, then press ◄ / ► to choose On Time or Off Time.

4. Press OK to enter Set Time mode.
5. Set Time (refer to GB16 of "Setting the Clock") and press OK to confirm the setting.

6. Press OK to exit, and return to the last source.

Sleep Timer

Setting the Sleep Timer
This feature allows you to select a time after which the system will switch to standby mode automatically.
1. Press SLEEP repeatedly to cycle through the sleep timer's times.
        The available sleep times are :
        90 minutes → 60 minutes → 30 minutes → 15 minutes → OFF

2. The 'Sleep' icon will appear when the Sleep Timer is on.

Checking the Sleep time remaining
When the Sleep Timer is switched on, you can check the remaining time before the unit switches to standby mode.
• Press SLEEP once, the remaining time will be displayed.

Cancelling the Sleep Timer
To switch off the Sleep Timer, press SLEEP repeatedly until "OFF" is displayed.

GB
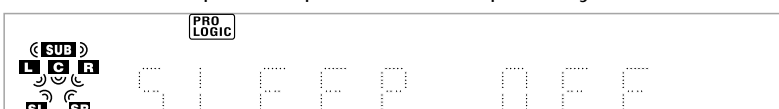
On Screen Messages

During Play, various messages will be shown on the screen for a few seconds to confirm that a function has been selected. You can turn on or off these messages in the 'On Screen' section of the setup menu.

The messages may appear are listed below:

PLEASE WAIT .... The system is initializing.

READING .... Reading the disc.

TRAY OPEN [⏏] .... The tray is about to open.

TRAY CLOSE [▽] .... The tray is about to close.

DVD .... DVD disc is loaded.

MUSIC CD .... Music CD disc is loaded.

NO VALID DISC .... Wrong disc format or damaged disc that cannot be played,

disc upside down or no disc in the tray.

INVALID REGION DISC .... The disc cannot be played because regional code is different

to the player.

PARENTAL LEVEL TOO LOW TO PLAY .... The parental control has been set and the disc cannot play.

PLAY [▶] .... Play.

PAUSE [❚❚] .... Pause playing.

STEP FWD [❚❚▷] .... One frame forward in pause mode.

STEP BWD [◁❚❚] .... One frame backward in pause mode.

CONTINUE [▶] .... Continue playing after pause.

RESUME STOP [↻□] .... Stop the disc but allow the disc to be resumed from the same place.

RESUME [↻▷] .... Playing is resumed.

STOP [■] .... Playing disc is completely stopped.

[⊘] .... This function is not available.

NEXT CHAPTER [▶▶❙] .... Play from beginning of next chapter.

PREV CHAPTER [❙◀◀] .... Play from beginning of previous chapter.

FAST FWD [▶▶1] .... Fast forward speed 1.

(For DVD up to speed 4, For CD up to speed 3).

FAST BWD [◀◀1] .... Fast backward speed 1.

(For DVD up to speed 4, For CD up to speed 3).

SLOW FWD [▷▷1] .... Slow forward speed 1.

(For DVD up to speed 4).

SLOW BWD [◁◁1] .... Slow backward speed 1.

(For DVD up to speed 4).

MUTE [▷◁] .... The sound is muted.

UNMUTE [◀] .... Sound mute is cancelled.

SKIPPING BAD DISC AREA .... There is a damaged section of the disc that the player can skip over.

TRACK : 1 .... Track selection with a number key. (Music CD).

SKIP NEXT [▶▶❙] .... Skip to start of the next track (Music CD).

SKIP PREV [❙◀◀] .... Skip to the start of the previous track (Music CD).

STAND BY .... Enter to standby mode.

POWER ON .... Switch on from stand by.

BUTTON : 2 .... Indicate a menu selection using the number keys.

Playing a DVD Disc

To play a DVD disk, open the drawer using the panel control or the remote control.
Insert the disc with the title uppermost.
Close the drawer using the panel key or the remote control.
There will be a short delay while the player identifies the disc and reads the menu from the disc.
An icon will display

Reading

The fluorescent display on the front of the player will indicate DVD.
Some discs will play automatically, others will display the disc menu. If the menu is presented, select "Play film" using the menu navigation keys and then press OK.

When the DVD is playing

Skip
Skip forward, or skip backward a chapter by pressing the (|◄◄) (►►|) Keys. Each press will jump to the beginning of the next or previous chapter.

Fast Search
Fast-forward or reverse by the ►► / ◄◄ keys. There are 4 speeds. Each press increases the speed.
You need not hold down the key.

►►1 ⟶ ►►2 ⟶ ►►3 ⟶ ►►4 ⟶ ►►1 …

or ◄◄1 ⟶ ◄◄2 ⟶ ◄◄3 ⟶ ◄◄4 ⟶ ◄◄1 …

Slow Motion
Play slow motion forward or backward using the ◄ / ► keys. There are 4 speeds. Each press reduces the speed. You need not hold down the key.
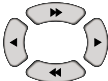
▷▷1 ⟶ ▷▷2 ⟶ ▷▷3 ⟶ ▷▷4 ⟶ ▷▷1 …

Note: There is no sound in Fast search and Slow Motion modes.

or ◁◁1 ⟶ ◁◁2 ⟶ ◁◁3 ⟶ ◁◁4 ⟶ ◁◁1 …

Normal Play mode
To revert to normal speed with sound, press the ► [OK] key.

Disc Menus
Press the menu key whilst the disc is playing and the disc menu will be displayed. You can navigate with the remote control navigation keys and select a feature with the ► [OK] key.

Pause
This temporarily stops the disc. The picture freezes and there is no sound. To start playing the disc again, press ► [OK] ,the disc resumes playing immediately. If you press Pause again (while pause) - the next frame of the movie will be shown.

Stop (and Resume Stop)
When pressed once, the player goes into Resume Stop mode. In this mode the film can be resumed from the stop point by pressing ► [OK]. In Stop mode you can display the Setup menu. If the STOP key is pressed twice, the player goes into Stop mode. When ► [OK] is pressed the disc will start from the beginning.

Active Navigation [DVD]

To display the control bar, press ▭ on the remote control.
The control bar will be displayed across the top of the screen. This control bar allows you to change settings (such as the audio language) while the disc is playing, without interrupting the film.

Navigate across the bar using ◄ / ► keys

Title
Select the title you wish to play on multi-title DVDs. Press ►► / ◄◄ to select a title and press ► [OK]. The new title will be displayed on screen (and also be shown on the florescent display, along with the corresponding time).

Chapter
Select the chapter you wish to play on multi chapter DVDs. Press ►► / ◄◄ to select a chapter and press ► [OK]. The new chapter will be displayed on screen (and also be shown on the florescent display, along with the corresponding time).

Time 🕐 Time search. This enables you to select and play the film from any point, the indicated figure is the elapsed time for the currently playing title. Input a time using the number keys and press ▶[OK]. The film will play from the associated time. The associated Chapter and time will be displayed on the florescent display. (On models with a display)

Language 💬🧑 **Sound** 🎧

This selects the audio track. Press the ⏩ ⏪ keys to cycle through the sound tracks available on the disc. To select a sound track press ▶[OK]. There could be 2 channel and 5.1 channel audio available. There could also be alternative language tracks. All discs are different in this respect.

Subtitle ▭ This allows you to select between available subtitle languages or turn the subtitles off. Pressing the ⏩ ⏪ keys allows selections to be displayed. To select press ▶[OK].

Press Right ▶ when the subtitle is highlighted to go to the second part of the Active Navigation Bar or press ⏭ to go directly to the second part of the Active Navigation Bar.

Angle 📹 Allows you to view the screen from different angles. This is only available on some discs. Check for this icon on the back of a DVD when purchasing.

OSD ▭ This allows you to inhibit the command responses in the top corner of the screen, eg Stop, Play, which are displayed momentarily when a remote key is pressed. To suppress these responses select "OFF" by pressing ▶[OK].

Repeat [AB] A-B Repeat allows a passage to be repeated continuously. Press ▶[OK] at the start of the required passage, then press ▶[OK] again at the end of the passage. The passage will now be repeated continuously.
To revert to normal playing, press ▶[OK] again.
You can also press RDS DISPLAY on the remote control to direct access to Repeat A-B mode.

Zoom 🔍 Allows the display area to be increased or decreased in size.
Press ▶[OK] to toggle between 1.0x, 2.0x and 0.5x.

Note: When the selection is completed, EXIT the Navigation Bar by pressing ▭ or "EXIT".

Playing a Music CD

To play a music CD, insert it in the drawer with the title on top and the playing side down. Press close ⏏ .
When the OSD displays "Music CD", press ▶[OK].

When the Music CD is playing

Skip
Skip forward, or skip backward by pressing the (⏮) (⏭) Keys. Each press will jump to the beginning of the next track or previous track. If Random mode is selected, skip will jump a random number of tracks.

Fast-Search
Fast-forward or reverse by the (⏩)(⏪) keys. There are 3 speeds which each press increases the speed until the maximum speed is reached. You need not hold down the key.

Normal Play mode
To revert to normal speed, press the ▶[OK] key.

Pause
This will stop the CD and mute the sound. Press ▶ [OK] or Pause ❙❙ to resume playing from the point that it was paused.

Mute
This will mute the sound, but the disc continues to play. When you unmute the sound (press ▶⚊ again), a later passage will be playing.

Number Keys
The number keys allow you to select a track directly, input the track number required.

Active Navigation [Music CD]

To display the control bar, press ▭ on the remote control.
The control bar will be displayed across the top of the screen.

Navigate across the bar using (◀ / ▶) keys

Track	Selects the track. Press (⏩)(⏪) to select a track and press ▶[OK]. The new track will be played and also be shown on the florescent display along with the corresponding time. The time displayed for Music CD is the elapsed time of the track, not for the whole CD.
Time	Time search. Input a time using the number keys and press ▶[OK]. The disc will play from the indicated time and the associated track and time will be displayed on the florescent display.
Repeat [AB]	A-B Repeat allows a passage to be repeated continuously. Press ▶[OK] at the start of the required passage, then press ▶[OK] again at the end of the passage. The passage will now be repeated continuously. To revert to normal playing again press ▶[OK] again.
Repeat [ALL]	This is a track repeat. When it displays "1", the current track will be automatically repeated. "ALL" means the whole CD will be played. To change between "1" and "ALL" press ▶[OK].
Random	When the random selection is switched on, track selections will be made at random, and not in a sequential manner.
OSD	This icon allows you to inhibit the command responses on the top corner of the screen, e.g. Stop, Play, which are displayed momentarily when a remote key is pressed. To suppress these responses select "OFF" by pressing ▶[OK]

Note: When the selection is completed, EXIT the Navigation Bar by pressing ▭ or "EXIT".

Setup Menu

To access the setup menu the disc must be in STOP mode.
Press MENU to display the setup menu.
Navigate using the remote control Navigation keys. Select options using the ▶[OK] key.
The selections are the preferred options that will be chosen if they are available on a disc. **If the disc does not have the preferred option then the discs own preference will be used.**

Language	Subtitle	TV Aspect	Audio Set	Digital out	Parental	On screen	Quit

---

Language Example showing how to change the audio language from ENGLISH to FRENCH

[Language] OK ▶   **[Audio]** OK ▶   ◀◀ X 2

Language

Select language option
◁ ▷ - Choose   ▶ - Enter   EXIT - Exit

Language
Audio — English
Subtitle — English
Menu — English
On screen — English
Return

Select audio language
◁◁ ◁▷ - Choose   ▶ - Enter   EXIT - Exit

Language
Audio — English — English
Subtitle — English — Deutsch
Menu — English — Français
On screen — English — Italiano
Return — Español
Return

◁◁ ◁▷ - Choose   ▶ - Yes   EXIT - Exit

[Return] OK ▶   ◀◀ X 4   **[Francais]** OK ▶

Language
Audio — Français
Subtitle — English
Menu — English
On screen — English
Return

Return
◁◁ ◁▷ - Choose   ▶ - Enter   EXIT - Exit

Language
Audio — Français
Subtitle — English
Menu — English
On screen — English
Return

Select audio language
◁◁ ◁▷ - Choose   ▶ - Enter   EXIT - Exit

Language
Audio — English — English
Subtitle — English — Deutsch
Menu — English — Français
On screen — English — Italiano
Return — Español
Return

◁◁ ◁▷ - Choose   ▶ - Yes   EXIT - Exit

Subtitle Example showing how to turn off the subtitle

[Subtitle] OK ▶   ◀◀ X 1   **[Off]** OK ▶

Subtitle

Select subtitle option
◁ ▷ - Choose   ▶ - Enter   EXIT - Exit

Subtitle
On
Off
Return

◁◁ ◁▷ - Choose   ▶ - Enter   EXIT - Exit

Subtitle
On
Off
Return

◁◁ ◁▷ - Choose   ▶ - Enter   EXIT - Exit

◀◀ X 1 **[Return]** OK ▶

Subtitle

Select subtitle option
◁ ▷ - Choose   ▶ - Enter   EXIT - Exit

Subtitle
On
Off
Return

◁◁ ◁▷ - Choose   ▶ - Enter   EXIT - Exit
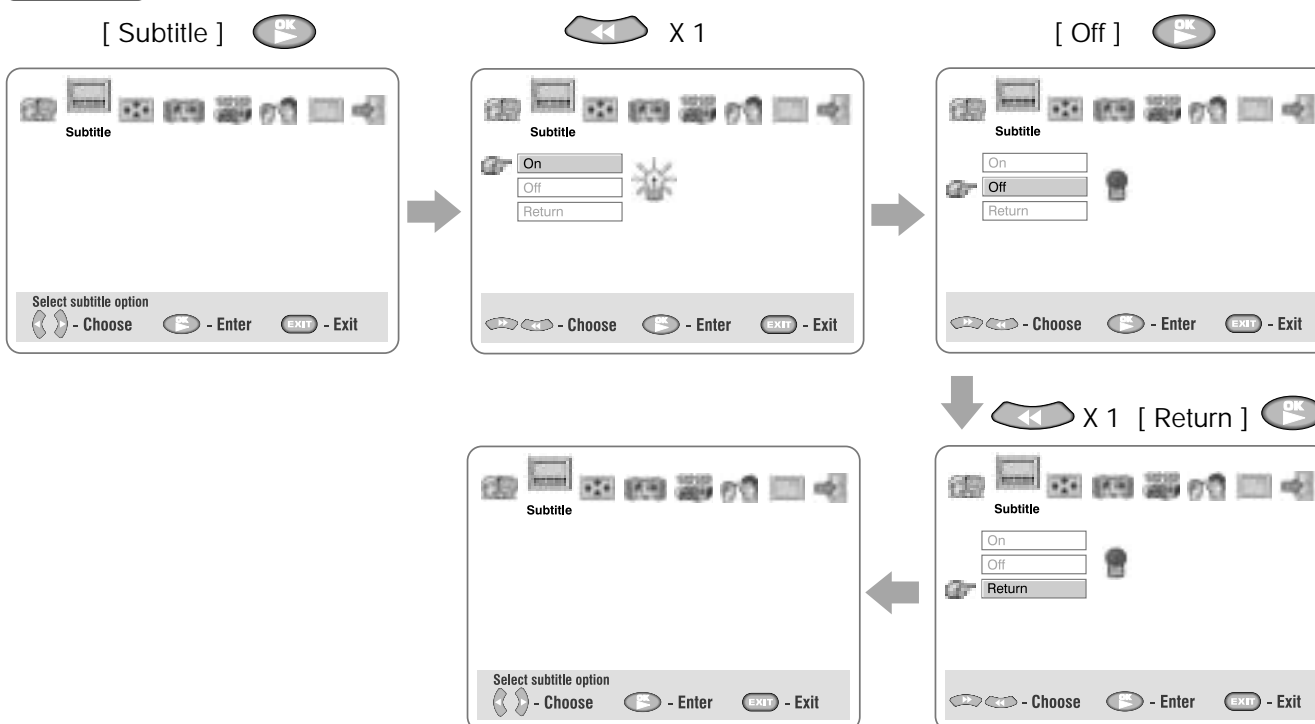
TV Aspect

L-Box means "Letter Box". The picture will be displayed as ▢ with black bars at the top and bottom of the screen. (For disc which support letter box feature)

P-Scan means "Pan and Scan". The picture fills the whole screen, however some portions at to left and right may not be visible. The picture will automatically Pan and Scan to left and right to center the most important part of the picture.
Not all discs support Pan and Scan, so the letterbox display may remain even though P-Scan is selected.

Example shows setting of Letter Box display on a normal TV

[TV Aspect] OK → ◄◄ X 1 → [TV Aspect] OK

[Return] OK ← ◄◄ X 1 ← [L-Box] OK
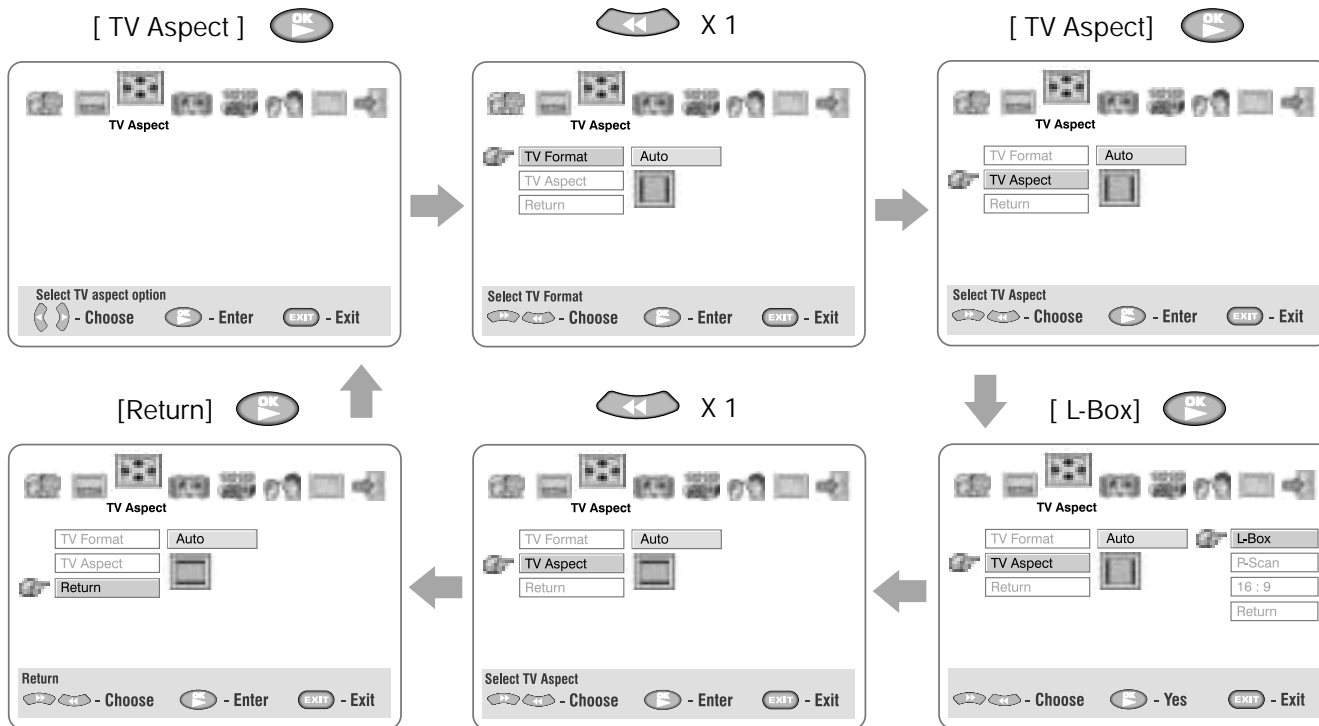
Audio Set

Example shows setting of Dynamic Range Compression (DRC) to night time listening.

[Audio Set] OK → ◄◄ X 3 → [DRC] OK

[Exit] OK ← ◄◄ X 1 ← ◄ X 4 OK
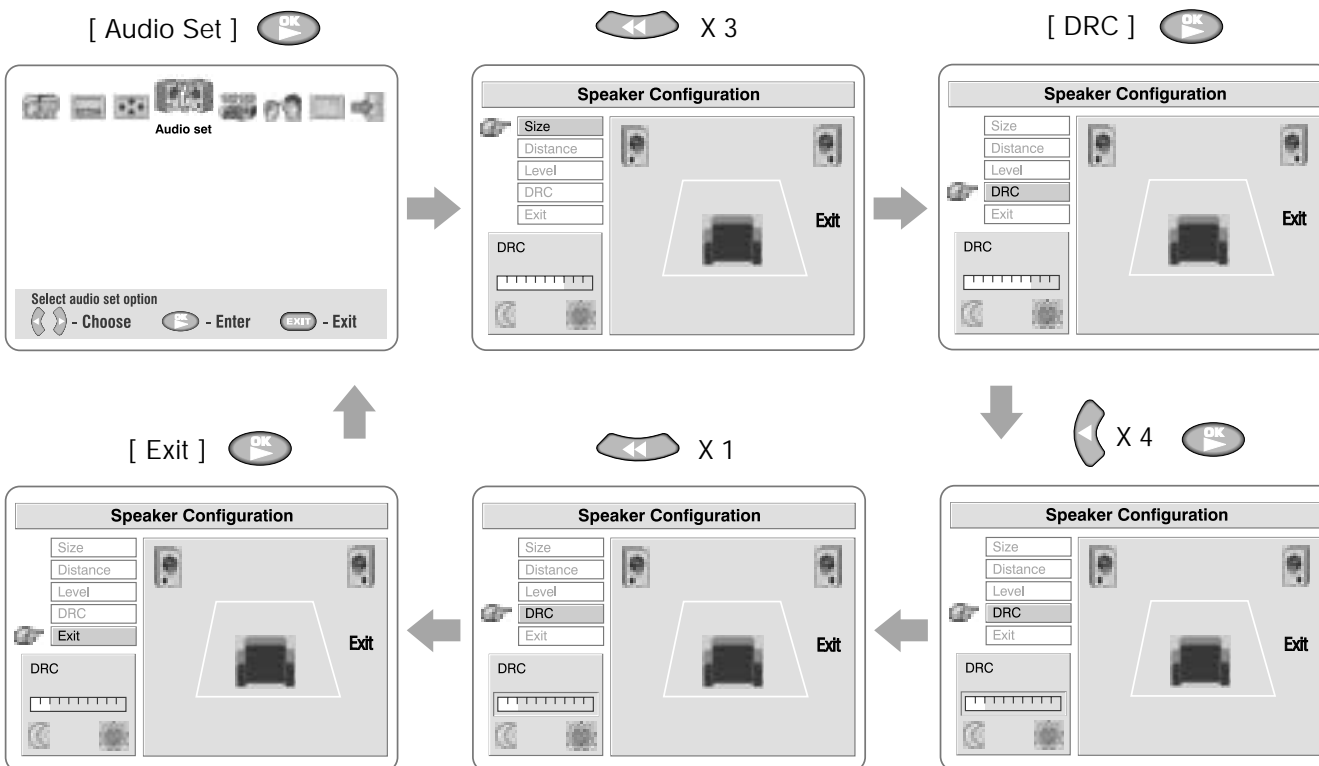
Audio Set — Example shows setting of 5.1 audio channel (only available on 5.1 Channel models) to 2 audio channels.

[Audio Set] ▸ OK ▸ OK ▸ ◁ or ▷ ▸ [speakers] ▸ OK ▸ ▸▸ or ◀◀ ▸ Center Speaker ▸ OK

Audio set

Select audio set option
◁ ◁ – Choose   ▸ – Enter   EXIT – Exit

Speaker Configuration

Size
Distance
Level
DRC
Exit

DRC

Exit

Speaker Configuration

Size
Distance
Level
DRC
Exit

DRC

Exit

◀◀ x 4 ▸ [Exit] ▸ OK

Speaker Configuration

Size
Distance
Level
DRC
Exit

DRC

◁ or ▷ ▸ [ ] ▸ OK

Speaker Configuration

Size
Distance
Level
DRC
Exit

DRC

Exit

▸▸ or ◀◀ ▸ Exit ▸ OK

Speaker Configuration

Size
Distance
Level
DRC
Exit

DRC

Exit

▸▸ or ◀◀ ▸ Subwoofer ▸ OK

Speaker Configuration

Size
Distance
Level
DRC
Exit

DRC

Exit

◁ or ▷ ▸ [ ] ▸ OK

Speaker Configuration

Size
Distance
Level
DRC
Exit

DRC

Exit

◁ or ▷ ▸ [ ] [ ] ▸ OK

▸▸ or ◀◀ ▸ Rear Speaker ▸ OK

◁ or ▷ ▸ [ ] ▸ OK

Speaker Configuration

Size
Distance
Level
DRC
Exit

DRC

Exit

Speaker Configuration

Size
Distance
Level
DRC
Exit

DRC

Exit

Speaker Configuration

Size
Distance
Level
DRC
Exit

DRC

Exit

Digital Out

To set up the Digital Audio output to a 5.1 Receiver/Decoder.
This menu enables you to set the type of 5.1 output according to your Decoder/Amp. The form of each type of Data (Dolby Digital, MPEG or DTS) can be set as Bitstream or PCM format to suit your Dolby & DTS decoders.

Digital out

Dolby Digital	Bitstream	Bitstream
MPEG	PCM	PCM
DTS	Bitstream	Return
Return		

⟷ - Choose   ▷ - Yes   EXIT - Exit
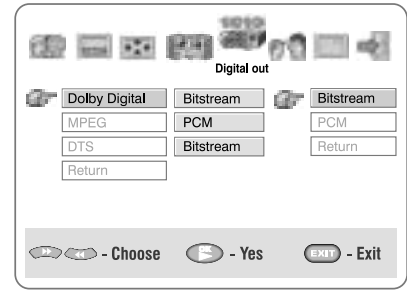
Parental Control

DVD discs have a parental level assigned to the disc. The range of parental controls are from 1 to 8.

The player can be set in a similar way. If the player's parental level is set to 8, it will play all discs. If the player's parental level is set below 8, only discs with a lower or equal parental level will play.

For example, if the player is set to 5, only discs with parental control ratings of 5,4,3,2, & 1 will play. To play a higher rated disc you must change the player's rating to a higher number.

Alternative scenes with lower rating are included. The player plays the highest rated scene that the parental setting allows. For example, consider a disc which is generally suitable for most audiences, and is rated as level 2 for the most part. However, in the middle there are also scenes rated at 5 & 7 (not suitable for children).

The player is delivered without a password. When you set the parental level for the first time, you are invited to enter your own password (e.g. 1,2,3,4,). This becomes the password for the player. **You must know this password in order to change it. Some films do not have parental control, the disc will play regardless of the player setting.**

The Disc

Parental Level 5
Parental Level 7
Parental Level 7
Playback path
Parental Level 2
Parental Level 2
Parental Level 5
Parental Level 2
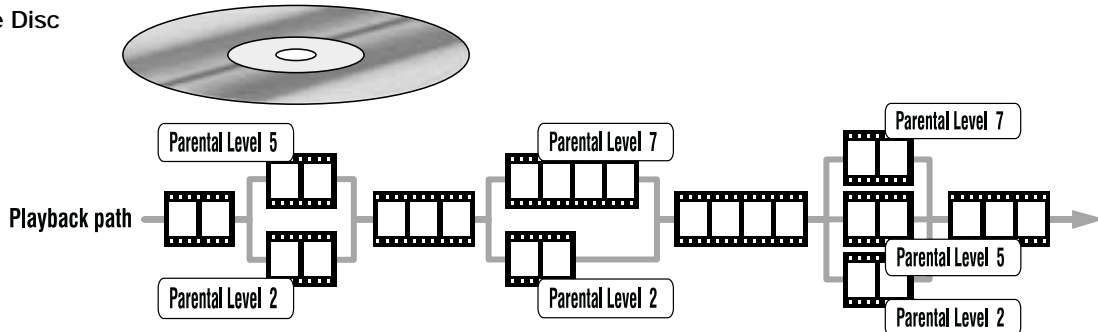
The Player

The player's behavior depends on the setting in the parental menu.

Parental Level Set to 1

Player does not play the disc and display "Parental Level too low to Play"

Parental Level Set between 2 & 4

Parental Level 5
Parental Level 7
Parental Level 7
Playback path
Parental Level 2
Parental Level 2
Parental Level 5
Parental Level 2

Parental Level Set to 5 or 6

Playback path

Parental Level 5
Parental Level 2
Parental Level 7
Parental Level 2
Parental Level 7
Parental Level 5
Parental Level 2
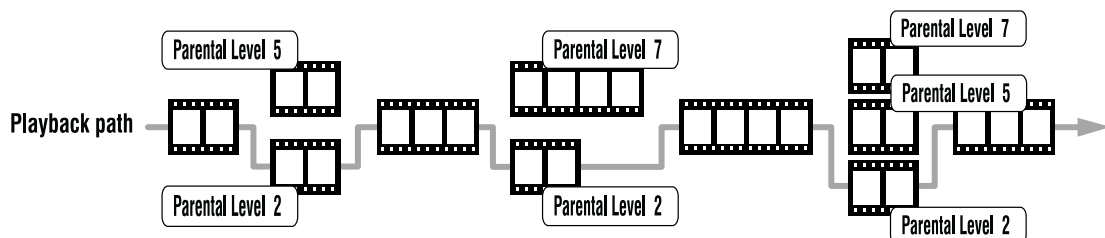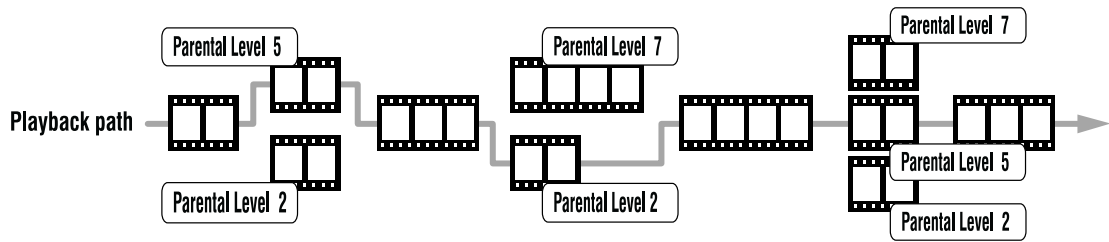
Parental Level Set at 7 or 8

Playback path

Parental Level 5
Parental Level 2
Parental Level 7
Parental Level 2
Parental Level 7
Parental Level 5
Parental Level 2
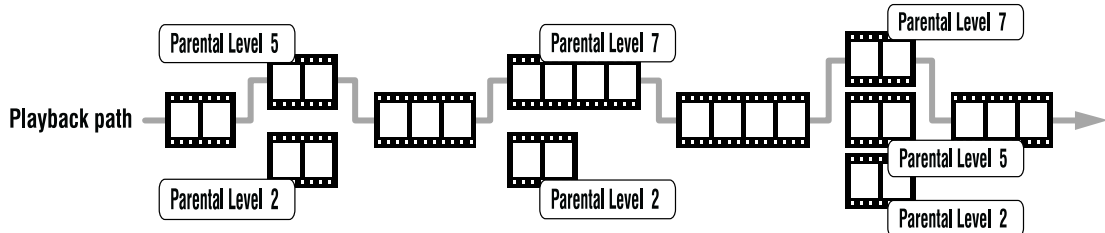
A section of the disc can have several different sequences which vary in parental control level. In the above example of a disc with parental control, the player will show a different section depending on the parental control level set in the player's menu.

In this way, parents can control the content of films and there is no indication that any censorship has occured.

The meaning of the levels 1 to 8 varies depending upon the country and the type of content of the disc.

The player is delivered without a password. When you set the parental level for the first time you are invited to enter your own password. (e.g. 1, 2, 3, 4). This becomes the password for the player. **You must know this password in order to change it.**

Parental Control

Example showing how to set parental level to 3

[Parental] OK

Parental

Select parental level option
- Choose   - Enter   EXIT - Exit

[Level] OK

Parental

Level	< 8 >
Password	
Lock/Unlock	
Panel keys	Off
Return	

Change and lock parental level
- Choose   - Enter   EXIT - Exit

or   < 3 > OK

Parental

Level	< 8 >		< 3 >
Password	
Lock/Unlock	
Panel keys	Off
Return	

Please select the level
- Level   - Yes   EXIT - Exit

(Password) OK
1,2,3,4,

Parental

Level	< 8 >		* * * *
Password	
Lock/Unlock	
Panel keys	Off
Return	

Please enter a new password
- Password   - Back   - Yes   EXIT - Exit

[Return] OK

Parental

Level	< 3 >
Password	* * * *
Lock/Unlock	
Panel keys	Off
Return	

Return
- Choose   - Enter   EXIT - Exit

x 4

Parental

Level	< 3 >
Password	* * * *
Lock/Unlock	
Panel keys	Off
Return	

Change and lock parental level
- Choose   - Enter   EXIT - Exit

Some films do not have parental control assigned and will play irrespective of the player setting.

A second method of parental control is also available in the PANEL KEYS option.   Set panel keys to OFF and the player can only be operated by the remote control. Now the player can only be used by someone with access to the remote control.

Panel Keys Lock

[Parental] `OK`

`◄◄` X 3 [Panel Keys] `OK`

`◄◄` [Off] `OK`

Parental

Select parental level option
`◊ ◊` - Choose   `▷` - Enter   `EXIT` - Exit

Parental

Level	< 8 >
Password	
Lock/Unlock	
Panel keys	On
Return	

Enable or disable front panel keys
`◊◊ ◊◊` - Choose   `▷` - Enter   `EXIT` - Exit

Parental

Level	< 8 >		On
Password			Off
Lock/Unlock			Return
Panel keys	On		
Return			

`◊◊ ◊◊` - Choose   `▷` - Yes   `EXIT` - Exit

[Exit] `OK`

`◄◄`

Parental

Level	< 8 >
Password	
Lock/Unlock	
Panel keys	Off
Return	

Return
`◊◊ ◊◊` - Choose   `▷` - Enter   `EXIT` - Exit

Parental

Level	< 8 >
Password	
Lock/Unlock	
Panel keys	Off
Return	

Enable or disable front panel keys
`◊◊ ◊◊` - Choose   `▷` - Enter   `EXIT` - Exit

On Screen

During playback, various icons and messages will be shown on the screen for a few seconds to confirm that a function has been selected. You can turn these messages off or on. A full list of these messages can be found on page GB18.

On Screen

[On Screen] `OK`

`◄◄`

[Off] `OK`

On screen

Select on-screen option
`◊ ◊` - Choose   `▷` - Enter   `EXIT` - Exit

On screen

On	
Off	
Return	

`◊◊ ◊◊` - Choose   `▷` - Enter   `EXIT` - Exit

On screen

On	
Off	
Return	

`◊◊ ◊◊` - Choose   `▷` - Enter   `EXIT` - Exit

`◄◄` X 1 [Return] `OK`

On screen

Select on-screen option
`◊ ◊` - Choose   `▷` - Enter   `EXIT` - Exit

On screen

On	
Off	
Return	

`◊◊ ◊◊` - Choose   `▷` - Enter   `EXIT` - Exit

GB
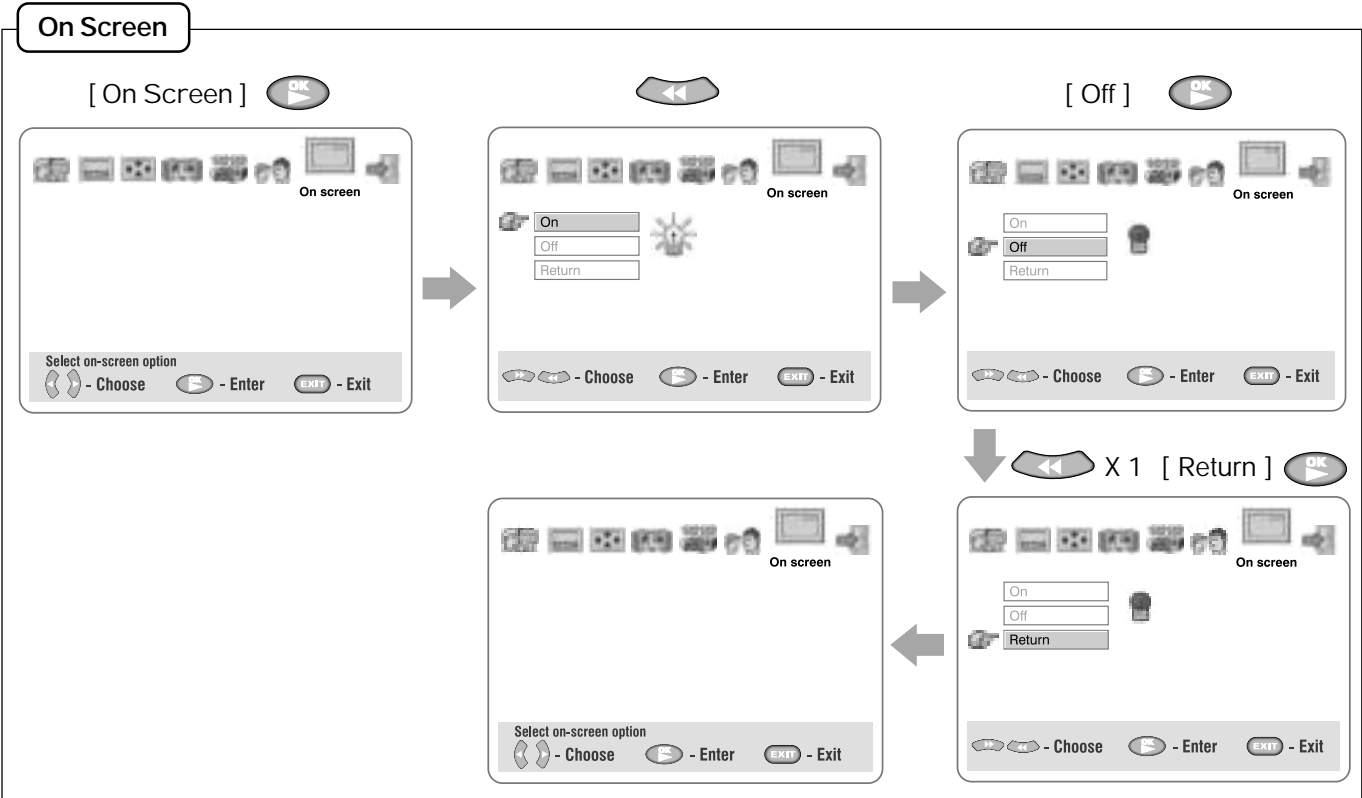
Program-Music CD

To display the CD program menu, the player must be in CD mode and the disc must be in STOP mode. Press "CD PROGRAM" 📷 on the remote control and the CD program menu will appear. To put the player into CD mode, insert an audio CD and close the drawer. The player will go into CD mode when it identifies the disc.

Program-Music CD   Example showing how to program favorite tracks from a music CD.

AUDIO > ►► or ◄◄   ►► or ◄◄ > P-1 2 > ⟩   OK > Save

P-1
1

P-1	P-2	P-3	P-4	P-5	P-6	P-7	P-8	P-9	P-10
P-11	P-12	P-13	P-14	P-15	P-16	P-17	P-18	P-19	P-20
P-21	P-22	P-23	P-24	P-25	P-26	P-27	P-28	P-29	P-30

- Choose   - Del   - Add
- Save   EXIT - Exit

P-1
2

P-1	P-2	P-3	P-4	P-5	P-6	P-7	P-8	P-9	P-10
2									
P-11	P-12	P-13	P-14	P-15	P-16	P-17	P-18	P-19	P-20
P-21	P-22	P-23	P-24	P-25	P-26	P-27	P-28	P-29	P-30

- Choose   - Del   - Add
- Save   EXIT - Exit

P-2
2

P-1	P-2	P-3	P-4	P-5	P-6	P-7	P-8	P-9	P-10
2									
P-11	P-12	P-13	P-14	P-15	P-16	P-17	P-18	P-19	P-20
P-21	P-22	P-23	P-24	P-25	P-26	P-27	P-28	P-29	P-30

- Choose   - Del   - Add
- Save   EXIT - Exit

Index (DVD)

Example showing how to set an Index marker.
Press the Index 📷 key while the disc is playing, the film will pause and the index will be displayed.
There are totally ten index marker settings. Each index marker can be reached by pressing the scan forward or backward button.

Index 📷   ⟩ X 2   ►► > OK

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

Disc Name : No Entry
Title : XX
Chapter : XX
Time : XX.XX.XX

- Choose   - Add   - Del
  - Play   EXIT - Exit

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

Disc Name : No Entry
Title : XX
Chapter : XX
Time : XX.XX.XX

- Choose   - Add   - Del
  - Play   EXIT - Exit

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

Disc Name : THE MATRIX 16X9LB N AMERICA
Title : 01
Chapter : 03
Time : 00.08.23

- Choose   - Add   - Del
  - Play   EXIT - Exit
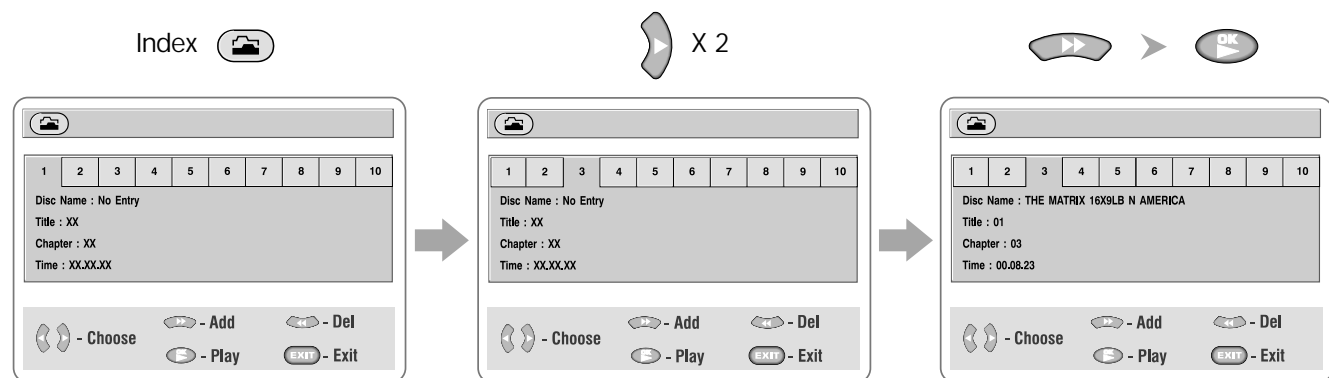
Example showing how to play for an indexed point.

Index 📷   ⟩ X 2 > OK

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

Disc Name : No Entry
Title : XX
Chapter : XX
Time : XX.XX.XX

- Choose   - Add   - Del
  - Play   EXIT - Exit

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

Disc Name : THE MATRIX 16X9LB N AMERICA
Title : 01
Chapter : 05
Time : 00.13.28

- Choose   - Add   - Del
  - Play   EXIT - Exit
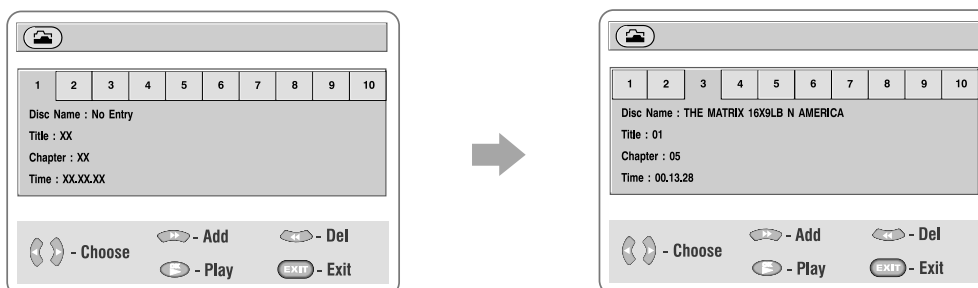
MP3 CD Play

Turn on your DVD player and place MP3 CD into the disc tray and close the tray. A MP3 player panel will appear on the TV screen and the first track selection will begin to play automatically .

MP3 Player

(12)	1/165	TRACK1~4	(1)
(11)	1:34 secs	44 kHz	128 kbps	J-Stereo	(2)
(10)			(3)

◄◄ ❙❙ ► ■ ►►❙   [icon] — (4)

(9) (8) (7) (6) (5)
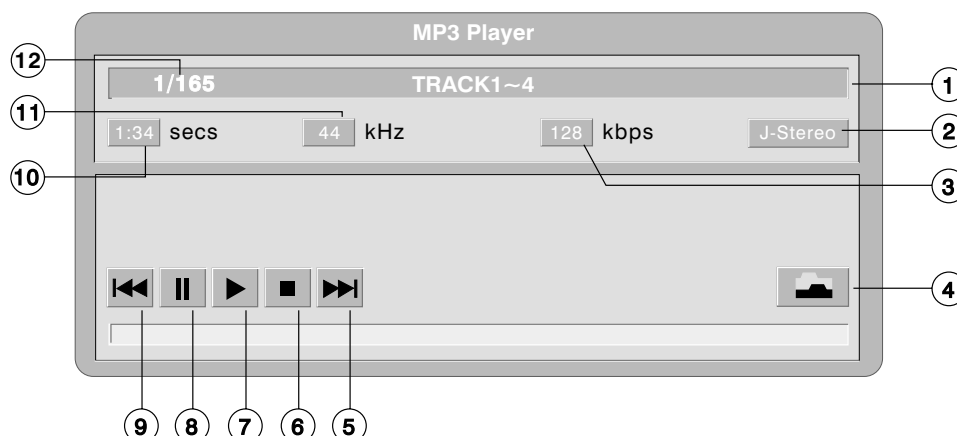
(1)   Songs name (when available).
(2)   Audio mode (stereo or mono).
(3)   Sampling rate.
(4)   [icon]   Responds to the " [icon] " key - use to edit the song list.
(5)   ►►❙   Responds to the " ►►❙ " key - use to skip to the next track.
(6)   ■   Responds to the " ■ " key - use to stop playback.
(7)   ►   Responds to the " ► " key - use to start playback.
(8)   ❙❙   Responds to the " ❙❙ " key - use to pause playback.
(9)   ◄◄   Responds to the " ◄◄ " key - use to skip to previous track.
(10)   Playing elapsed time per song.
(11)   Sampling frequency.
(12)   First song and the total number of the song list.
When listening to a MP3 disc, you can Pause / Stop / Skip /Play the song by manipulating the above functions.
You can directly select any song of the list by pressing the numeric keys of the remote control and [OK] .

MP3 Song Selection List Screen and Disc Browser Screen
This screen displays the List of Songs that can be played.

1/4   **MP3 Songs Selection List**

Selected Song

Not Selected Song

Play ►
New
Add
Sel All
Remove
Rmv All
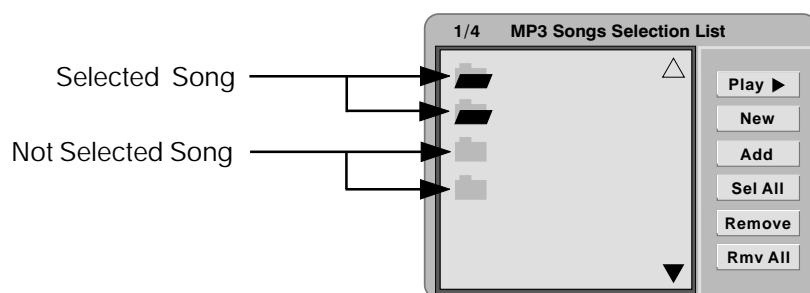
When you first load a disc, every song on the disc will be placed in this Song Selection List, and all will be selected for playing.
You can change the selection by highlighting the song and pressing [OK] .

Disc Browser Screen

You can create your own MP3 Song Selection List using the Disc Browser.

MP3 Disc Browser

Albums	Tracks

[navigation] Choose [button] Select [button] Play
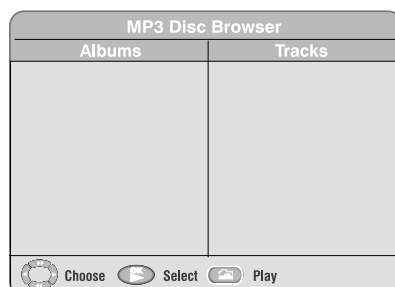
This screen shows all the Albums and Tracks on the disc and lets you choose which ones you want in the Song Selection List.

Navigating between MP3 Screens
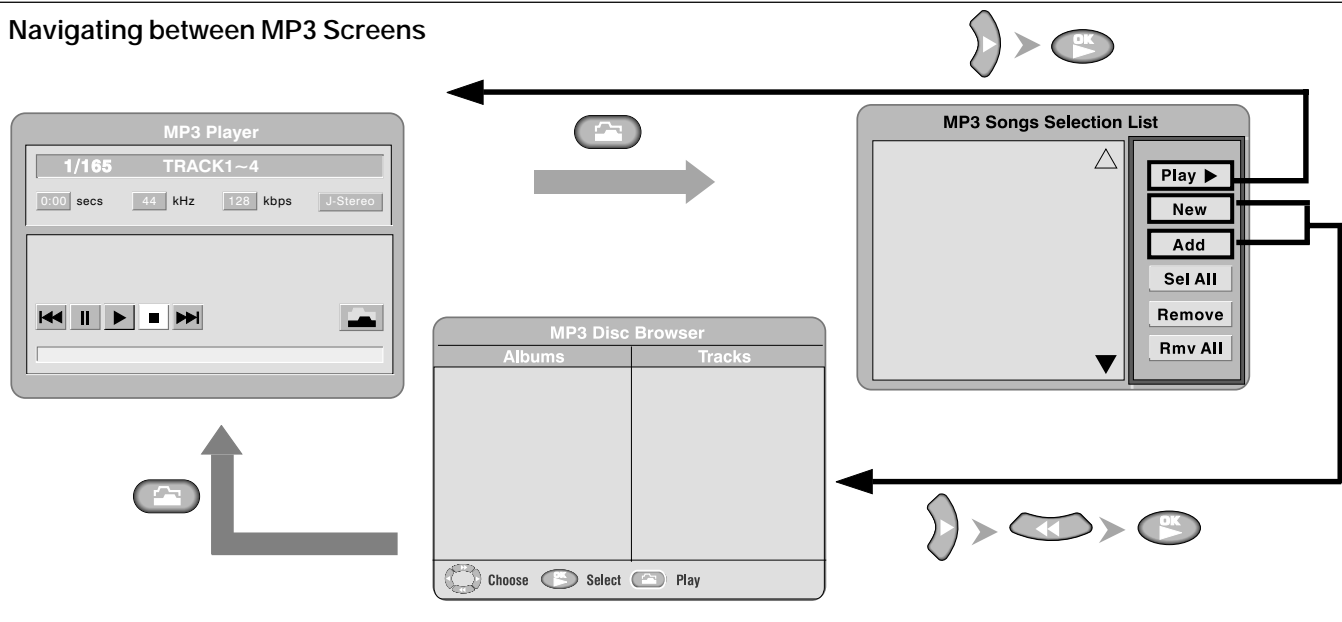
Playing a MP3 Disc

From the MP3 Disc Browser, you could choose your favorite songs.
For the sake of the user's convenience, a particular disc named 010315_1 is used for illustration.

Select & Play Your Song

Select the album you want

The rest (if any) of the albums / tracks appear if carry on pressing ◄◄

Press the ►► / ◄◄ button to select album / track (song) and press OK to confirm.

You can choose one song or more than one song by pressing ►► / ◄◄ and OK to confirm.

Press the EXIT or key, the MP3 player will automatically start to play the first song of the selection list.
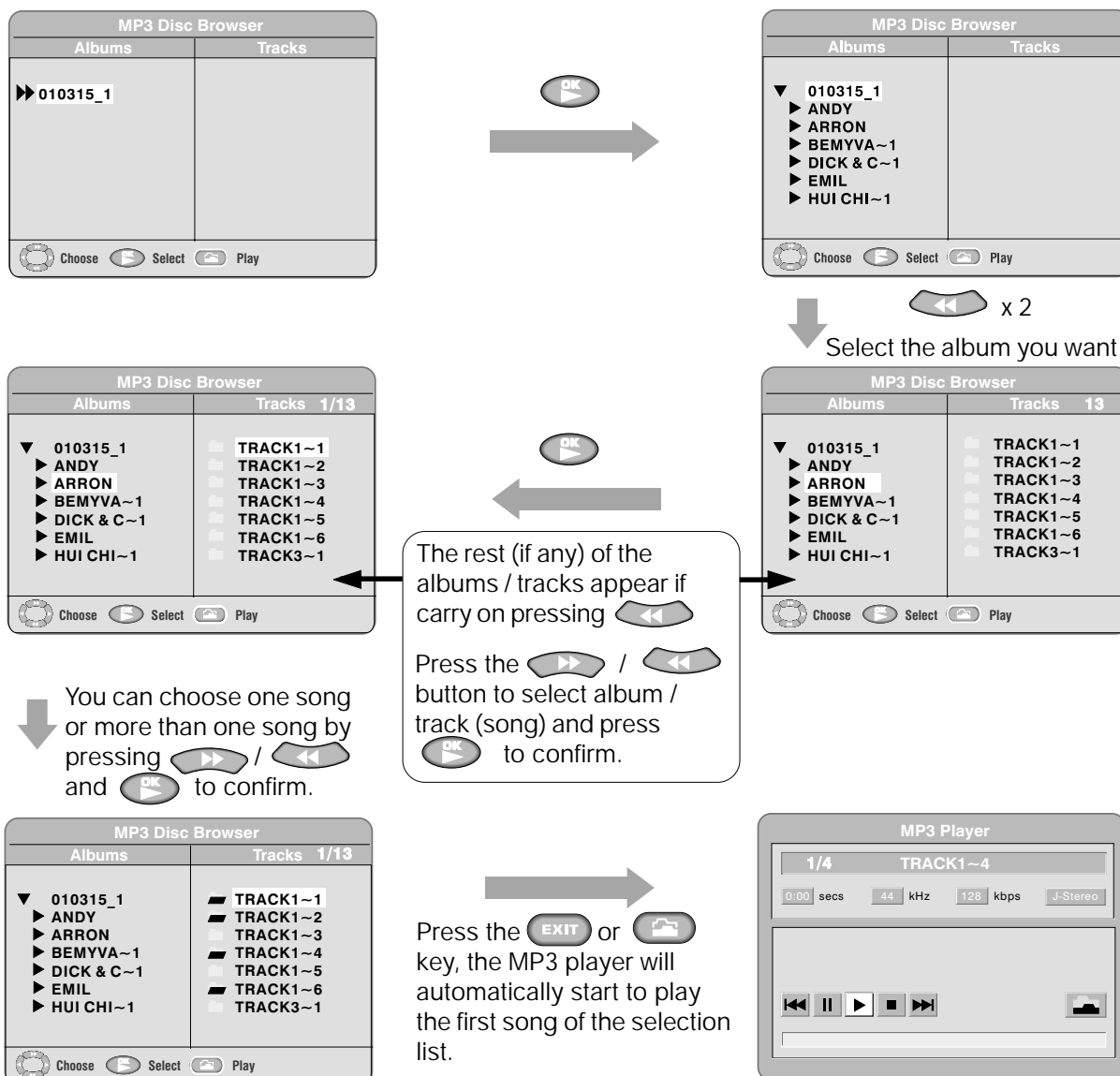
Play, Erase, Choose and Add Your Song

Play ▶ - Starts to play the first song of the list.

1/4 MP3 Songs Selection List		1/4 MP3 Songs Selection List		MP3 Player

1/4   MP3 Songs Selection List

- TRACK1~4
- TRACK1~6
- TRACK1~2
- TRACK1~1

Play ▶
New
Add
Sel All
Remove
Rmv All

1/4   MP3 Songs Selection List

- TRACK1~4
- TRACK1~6
- TRACK1~2
- TRACK1~1

Play ▶
New
Add
Sel All
Remove
Rmv All

MP3 Player

1/4   TRACK1~4

0:00 secs   44 kHz   128 kbps   J-Stereo

|◀◀   II   ▶   ■   ▶▶|
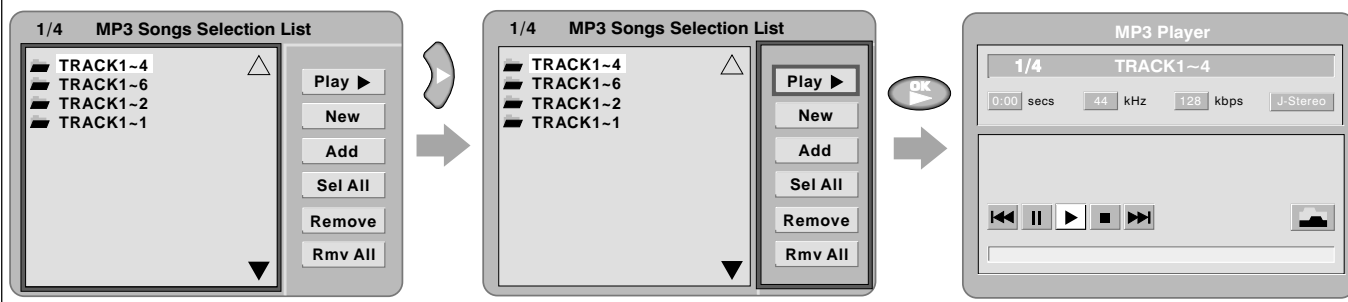
New - Erases all songs in the selection list and chooses new songs from the browser.

1/4   MP3 Songs Selection List

- TRACK1~4
- TRACK1~6
- TRACK1~2
- TRACK1~1

Play ▶
New
Add
Sel All
Remove
Rmv All

Current Play List Will Be Deleted

(New) OK

All songs erased

MP3 Disc Browser

Albums	Tracks
▶▶ 010315_1	

Choose   Select   Play

MP3 Disc Browser

Albums	Tracks 1/29
▼ 010315_1	D2TRAC ~ 1
▶ ANDY	D2TRAC ~ 2
▶ ARRON	D2TRAC ~ 3
▶ BEMYVA~1	D2TRAC ~ 4
▶ DICK & C~1	D2TRAC ~ 5
▶ EMIL	D2TRAC ~ 6
▶ HUI CHI~1	D2TRAC ~ 7

Choose   Select   Play

(ANDY) OK

MP3 Disc Browser

Albums	Tracks 29
▼ 010315_1	D2TRAC ~ 1
▶ ANDY	D2TRAC ~ 2
▶ ARRON	D2TRAC ~ 3
▶ BEMYVA~1	D2TRAC ~ 4
▶ DICK & C~1	D2TRAC ~ 5
▶ EMIL	D2TRAC ~ 6
▶ HUI CHI~1	D2TRAC ~ 7

Choose   Select   Play

OK > ▶▶ or ◀◀

Please refer to "Select & Play" on page GB30.

Add - Adds the song(s) newly selected from the browser to the existing song list.

x 2

1/4   MP3 Songs Selection List

- TRACK1~4
- TRACK1~6
- TRACK1~2
- TRACK1~1

Play ▶
New
Add
Sel All
Remove
Rmv All

Add To The Current Play List

(Add) OK

MP3 Disc Browser

Albums	Tracks
▶▶ 010315_1	

Choose   Select   Play

MP3 Disc Browser

Albums	Tracks 1/16
▼ 010315_1	TRACK1 ~ 1
▶ ANDY	TRACK1 ~ 2
▶ ARRON	TRACK1 ~ 3
▶ BEMYVA~1	TRACK1 ~ 4
▶ DICK & C~1	TRACK1 ~ 5
▶ EMIL	TRACK1 ~ 6
▶ HUI CHI~1	TRACK1 ~ 7

Choose   Select   Play

(EMIL) OK

MP3 Disc Browser

Albums	Tracks 16
▼ 010315_1	TRACK1 ~ 1
▶ ANDY	TRACK1 ~ 2
▶ ARRON	TRACK1 ~ 3
▶ BEMYVA~1	TRACK1 ~ 4
▶ DICK & C~1	TRACK1 ~ 5
▶ EMIL	TRACK1 ~ 6
▶ HUI CHI~1	TRACK1 ~ 7

Choose   Select   Play

OK > ▶▶ or ◀◀

Please refer to "Select & Play" on page GB30.

Function Setup

GB

Select All and Remove Your Song

Sel All - All songs in the selection list will be selected (for playing).

```
1/3     MP3 Songs Selection List
  TRACK1~4        △        Play ▶
  TRACK1~6                 New
  TRACK1~2                 Add
                           Sel All
                           Remove
                 ▼         Rmv All
```

If you only want to play the first song in the selection list, but not the second and third song, you can omit the two songs by pressing ▶▶ / ◀◀ and OK .

```
1/3     MP3 Songs Selection List
  TRACK1~4        △        Play ▶
  TRACK1~6                 New
  TRACK1~2                 Add
                           Sel All
                           Remove
                 ▼         Rmv All
```

(Sel All) OK   ◀◀ x 3

Play all songs in the list

📁 / ◀ ▶ ▶ OK

```
         MP3 Player
  1/3         TRACK1~4
 0:00 secs  44 kHz  128 kbps  J-Stereo

 ◀◀ ❚❚ ▶ ■ ▶▶            ▂▃
```

```
1/3    MP3 Songs Selection List
  TRACK1~4        △        Play ▶
  TRACK1~6                 New
  TRACK1~2                 Add
                           Sel All
                           Remove
                 ▼         Rmv All
  All Songs In The List Will Be Selected
```
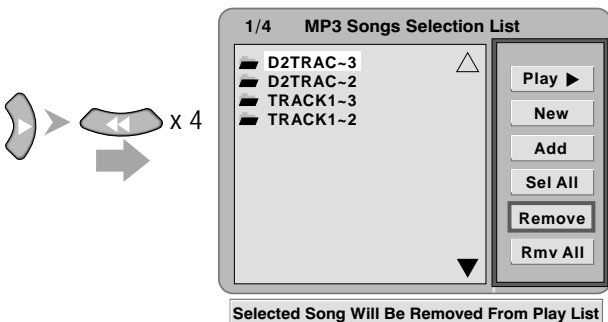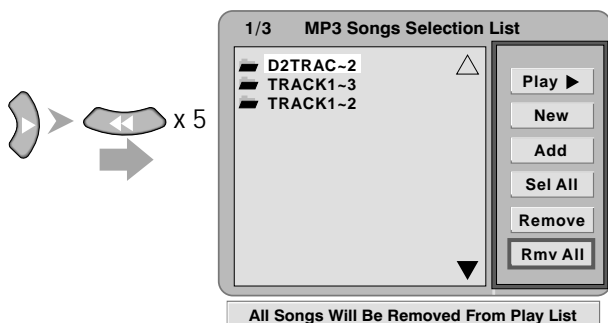
```
1/3     MP3 Songs Selection List
  TRACK1~4        △        Play ▶
  TRACK1~6                 New
  TRACK1~2                 Add
                           Sel All
                           Remove
                 ▼         Rmv All
  All Songs In The List Will Be Selected
```

Remove - Removes one song from the selection list.

▶ ◀◀ x 4

```
1/4     MP3 Songs Selection List
  D2TRAC~3        △        Play ▶
  D2TRAC~2                 New
  TRACK1~3                 Add
  TRACK1~2                 Sel All
                           Remove
                 ▼         Rmv All
  Selected Song Will Be Removed From Play List
```

(Remove) OK

```
1/3     MP3 Songs Selection List
  D2TRAC~2        △        Play ▶
  TRACK1~3                 New
  TRACK1~2                 Add
                           Sel All
                           Remove
                 ▼         Rmv All
  Selected Song Will Be Removed From Play List
```

Rmv All - Removes all songs from the selection list.

▶ ◀◀ x 5

```
1/3     MP3 Songs Selection List
  D2TRAC~2        △        Play ▶
  TRACK1~3                 New
  TRACK1~2                 Add
                           Sel All
                           Remove
                 ▼         Rmv All
  All Songs Will Be Removed From Play List
```

(Rmv All) OK

```
       MP3 Songs Selection List
                           Play ▶
                           New
                           Add
                           Sel All
                           Remove
                           Rmv All
  All Songs Will Be Removed From Play List
```

Problems ?

If it appears that your DVD receiver is faulty, first consult this checklist. It may be that something simple has been overlooked.

Under no circumstances should you try to repair the unit yourself; as this will invalidate the warranty. Only qualified service personnel can remove the cover or service this DVD receiver.

NO POWER
- Check if the on/off button on the front of the unit is set to on.
- Check if power plug of the mains cord is properly connected.
- Check if there is power at the AC outlet by plugging in another appliance.

NO PICTURE
- Check if the TV is switched on.
- Select the correct AV input on the TV.
- Check the video connection.
- Check if channel selector is set to AV on the TV. (See your TV manual for instructions).

DISTORTED PICTURE
- Check the disc for fingerprints and clean with soft cloth, wiping from center to edge.
- Sometimes a small amount of picture distortion may appear. This is not a malfunction.

COMPLETELY DISTORTED PICTURE
- The disc format is not according to the TV- set used (PAL/NTSC).

NO COLOR IN PICTURE
- The disc format is not according to the TV- set used (PAL/NTSC).
- Ensure DVD player is not connected through VCR.

DISC CANNOT BE PLAYED
- Ensure the disc label is facing upward.
- Clean the disc.
- Check if the disc is defective by trying another disc.
- Due to the reason of incapability, some discs can not be read by our MP3 Player (Please refer to page GB34 for further information).

NO SOUND
- Check audio connections.
- If using a HiFi amplifier, try another sound source.
- Check that DTS is selected in the Audio Menu if a DTS disc is played.
- Ensure there is a DTS decoder connected when selecting DTS.

NOT RETURN TO START-UP SCREEN WHEN DISC IS REMOVED
- Check to see if the program requires another disc to be loaded.
- Reset by unplugging the unit from the power, then connect the power again.

THE DVD RECEIVER DOES NOT RESPOND TO THE REMOTE CONTROL
- Aim the remote control directly at the sensor on the front of the unit.
- Avoid all obstacles which may interfere with the signal path.
- Inspect or replace the batteries.

DISTORTED OR B/W PICTURE
- The disc format is not according to the TV- set used (PAL/NTSC].

NO AUDIO AT DIGITAL OUTPUT
- Check the digital connections
- Check the Digital Out menu to make sure that the digital output is correctly set.
- Check if the audio format of the selected audio language matches your DVD receiver capabilities.

BUTTONS DO NOT WORK
- Unplug the unit from power outlet and reconnect after a few seconds.

YOU HAVE FORGOTTEN THE PASSWORD
- Press the PAUSE key on the front panel while inserting the power plug to the power outlet. For models without PAUSE key on the front panel, press ▭ key on the panel while inserting the power plug to the power outlet.

THE DISC IS STUCK INSIDE THE PLAYER
- Press ⏻ power on / standby button to standby mode and switch to power on after a few seconds.

Supplement for MP3

Precaution should be taken when you create your own MP3 CD
The MP3 Player supports only ISO9660 standard (level 1), it can recognize and play MP3 files burned to CD-R, CD-RW discs with the ISO9660 standard.
To make a disc with ISO9660 format you must use the "DATA CD Creator".

The MP3 Player will not recognize any MP3 CD created with formats other than ISO9660.

ISO9660 is the default CD burning format for most common CD creation software. When creating MP3 CDs, users must refer to the help files of the CD creation software they are using in order to confirm that they are applying the correct settings to create a ISO9660 formatted CD. One of the procedures to set up ISO9660 option for some common CD creation software is found in the following section.

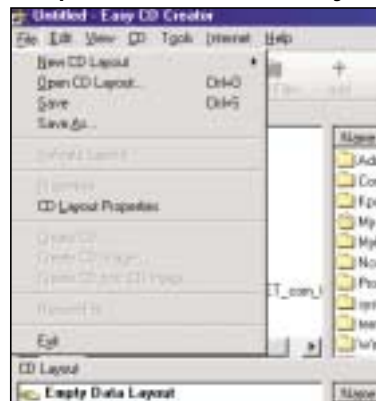## Setting ISO9660 format option in some common CD creation software

Adaptec Easy CD creator 4.0
Note: ISO9660 setting procedure for other versions of Adaptec Easy CD creator, please refer to Adaptec's official web site at "www.adaptec.com".

Step1 -- Click on "File"

Step2 -- Click on "CD Layout Properties"

Step3 -- Choose ISO9660, Click OK. "ISO9660" format is set for burning!

Electrical Specification

- **Amplifier Section**

Power Output	:	70W RMS/channel (1kHz)
Total Harmonic Distortion	:	0.7% at rated power (1kHz)
Frequency Response	:	20Hz - 20kHz / ± 1dB
Signal-to-Noise Ratio	:	≥ 65dB (CCIR)
Input Sensitivity	:	460mV
Tone Control	:	± 12dB

- **Tuner Section**

Tuning Range	:	FM 87.50-108.00Mhz (100kHz steps)
	:	AM 530-1720kHz (10kHz steps)
26dB Quieting Sensitivity	:	FM 20dB
26dB Quieting Sensitivity	:	AM 3162uV/m
Image Rejection Ratio	:	FM 25dB
	:	AM 28dB
IF Rejection Ratio	:	FM 60dB
	:	AM 38dB
Signal-to-Noise Ratio	:	FM 60dB
	:	AM 40dB
Selectivity	:	FM 20dB
AM Suppression Ratio	:	FM 30dB
Harmonic Distortion	:	FM Mono 3%
		Stereo 3%
	:	AM 5%
Frequency Response	:	FM 63Hz-10kHz / ± 6dB
Stereo Separation	:	FM 26dB (1kHz)
Stereo threshold	:	FM 28dB

- **DVD Section**

Laser Type	:	Semiconductor	
Disc Diameter	:	12cm/8cm	
Playing Time (12cm)	:	Single Layer	- 2.12h
	:	Dual Layer	- 4.01h
	:	Two Sides, Single Layer	- 4.26h
	:	Two Sides, Dual Layer	- 8.02h
Video Decoding	:	MPEG-2	
Video DAC	:	10 Bits	
Signal System	:	PAL/NTSC	
Video Format	:	4:3/16:9	
Video S/N Ratio	:	56dB (minimum)	
Composite Video Output	:	1.0 Vp-p, 75 ohms	
S-Video Output	:	Y - 1.0 Vp-p, 75 ohms	
	:	C - 0.286 Vp-p, 75 ohms	
Audio DAC	:	24 Bits/96kHz	
Frequency Response	:	4Hz-20kHz (44.1kHz)	
	:	4Hz-22kHz (48kHz)	
	:	4Hz-44kHz (96kHz)	
Digital Output	:	SPDIF Coaxial & Optical	

- **Miscellaneous**

Power Supply Rating	:	120Vac/60Hz
Power Consumption	:	216 Watts
Dimensions (WxHxD)	:	435mm x 140mm x 430mm
Weight	:	13kg

- **IR Remote Control**

Effective Range	:	> 8 Metres
No. of Keys	:	39
Battery (1.5V)	:	AAA X 2

GB